

FIG. 1A

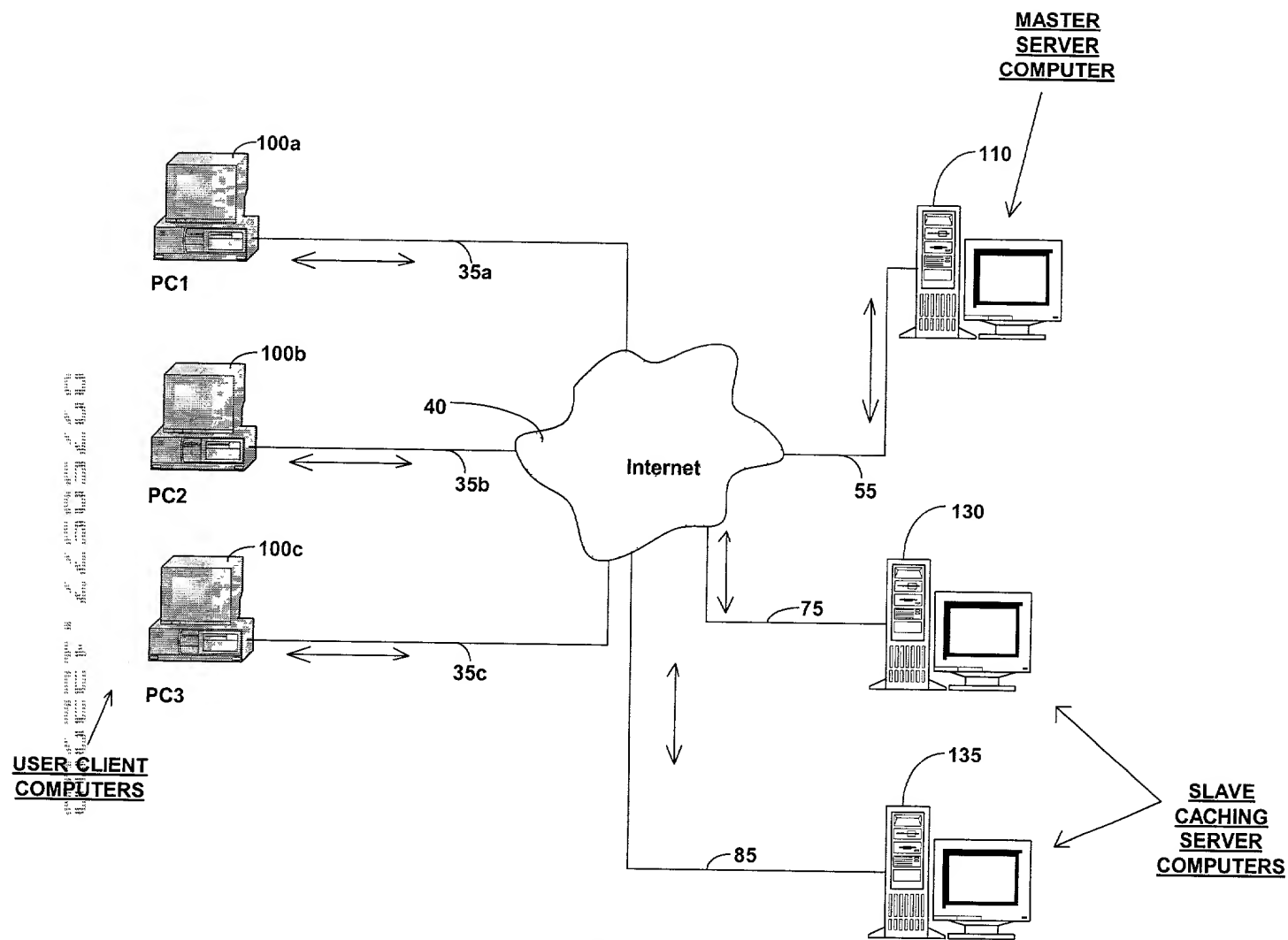


FIG. 1B

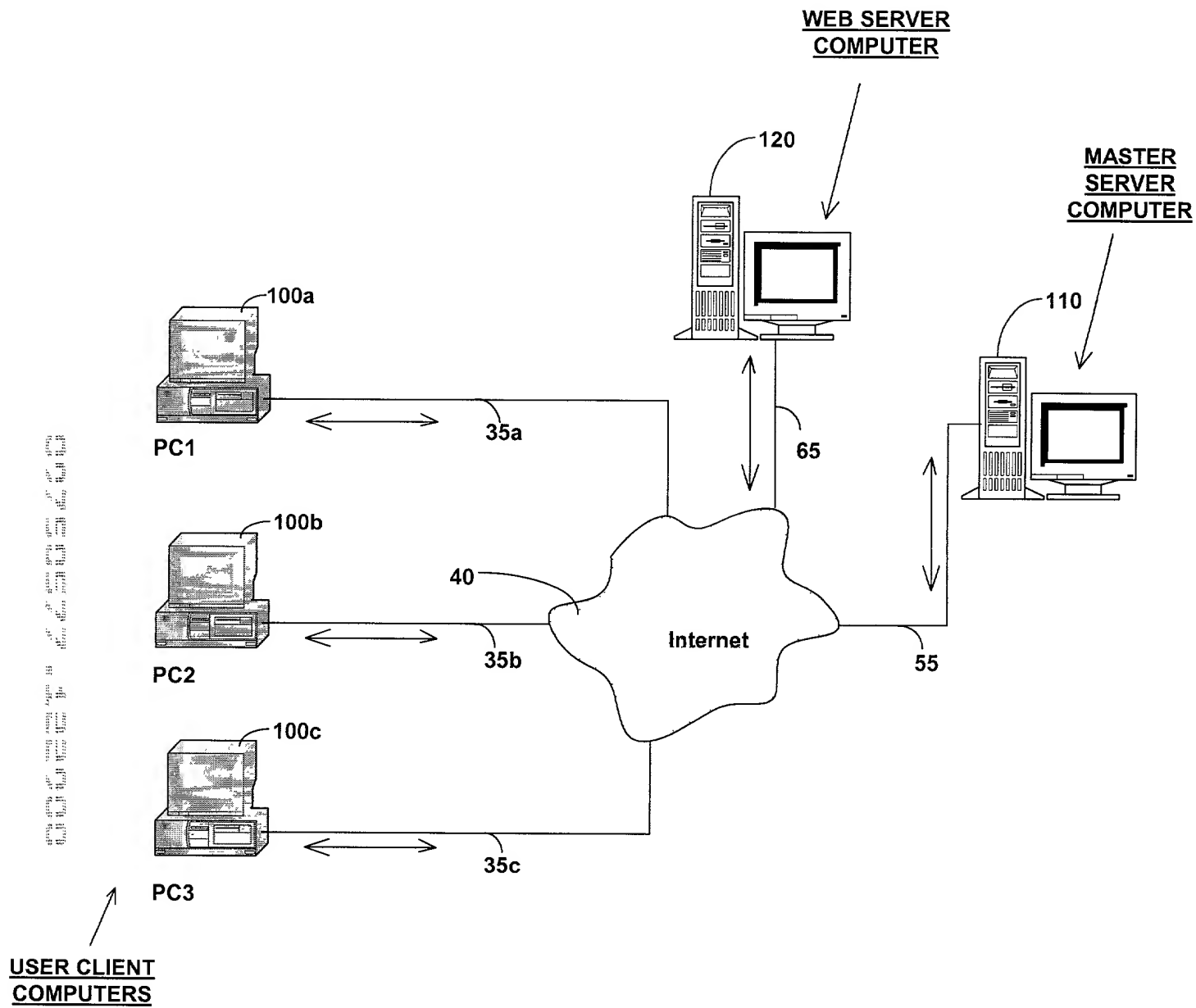


FIG. 1C

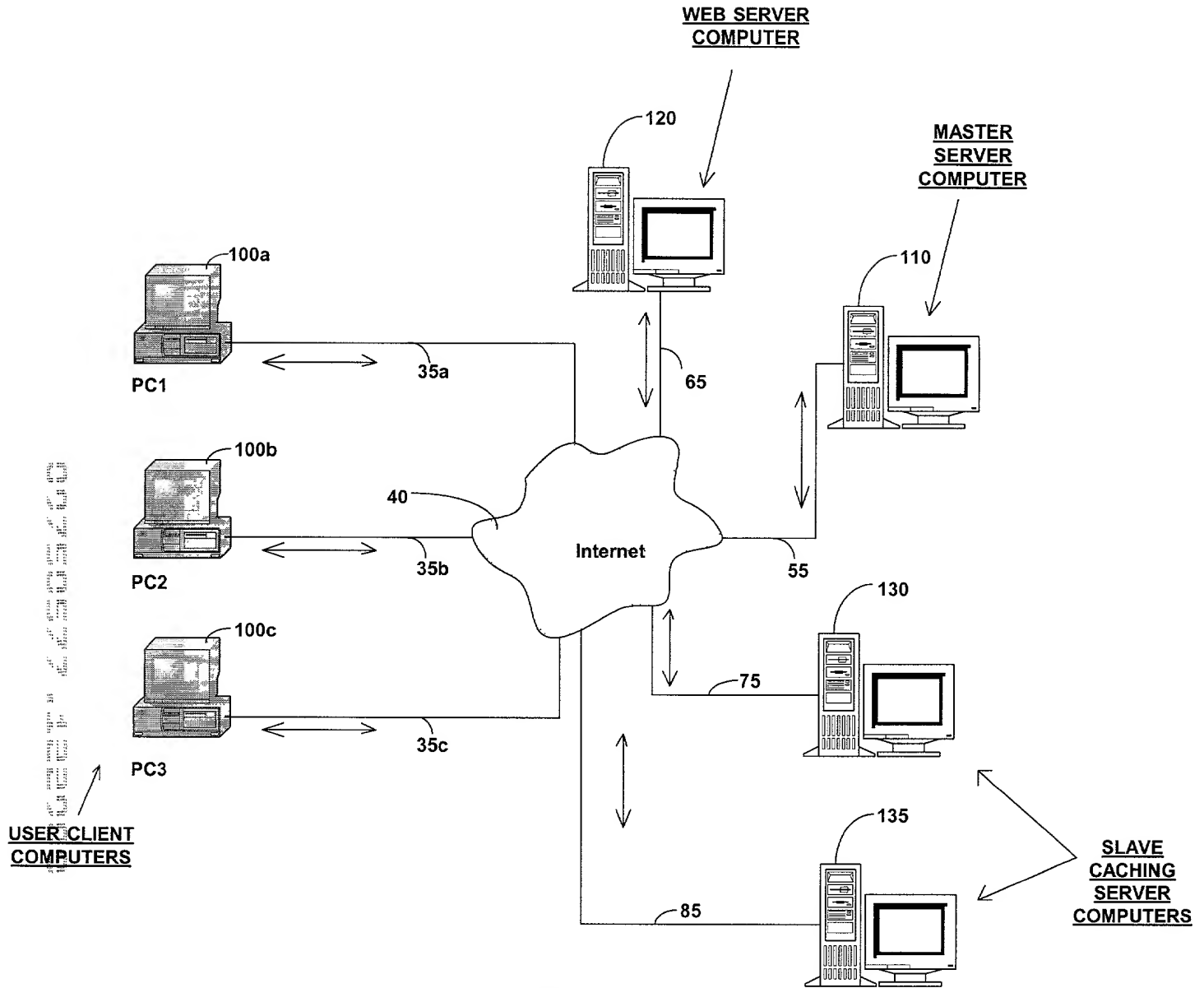


FIG. 1D

FIG. 2A(1)

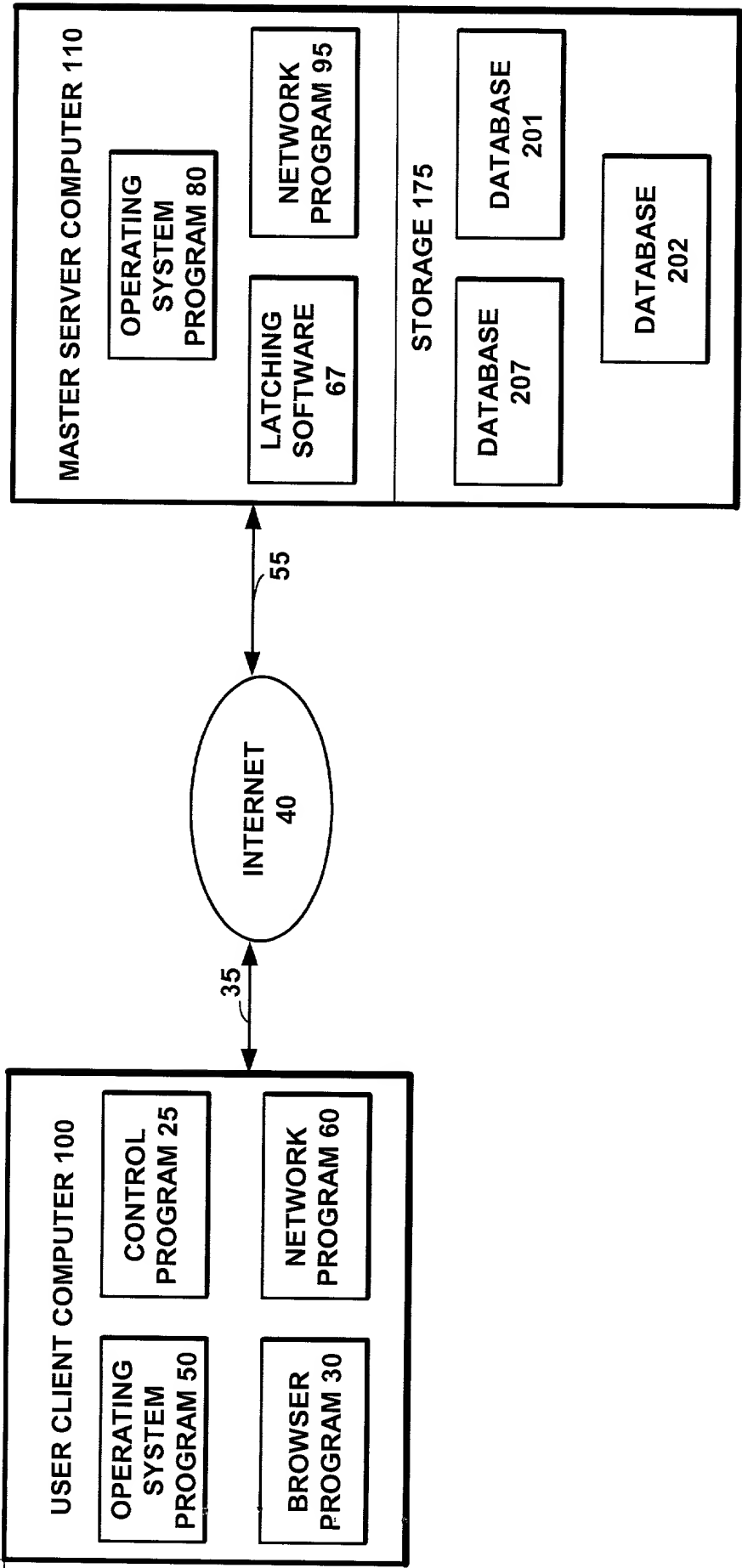


FIG. 2A(2)

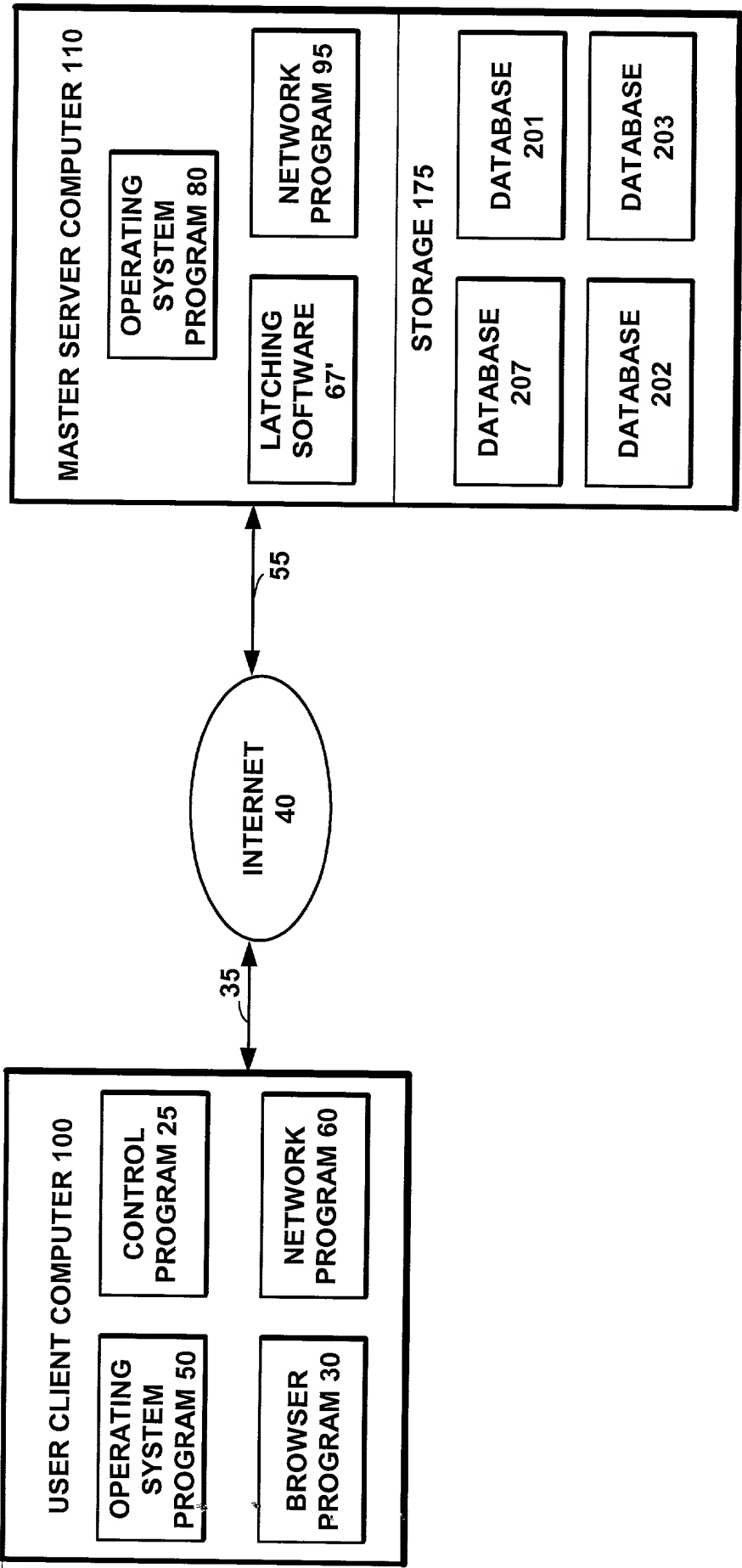
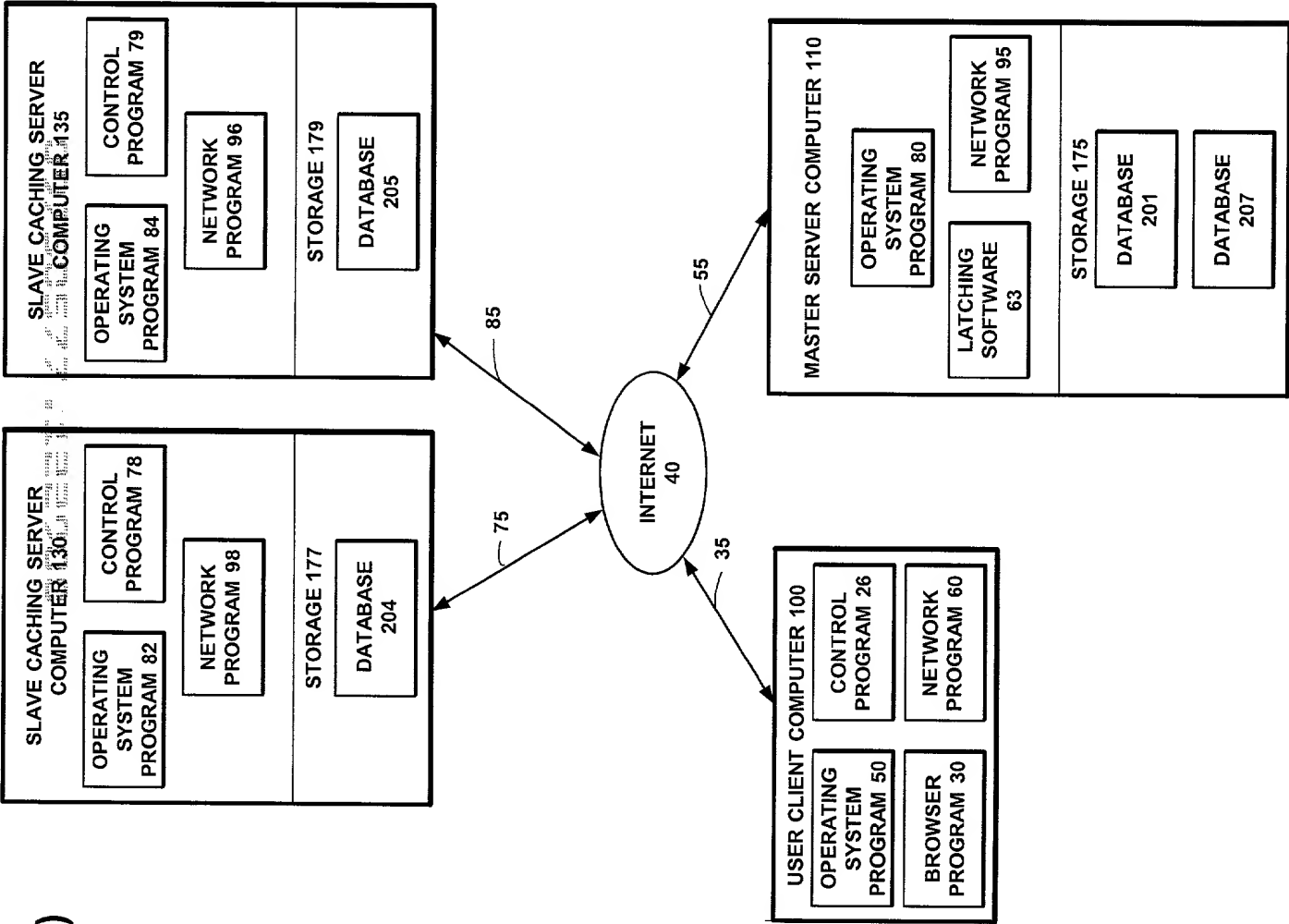
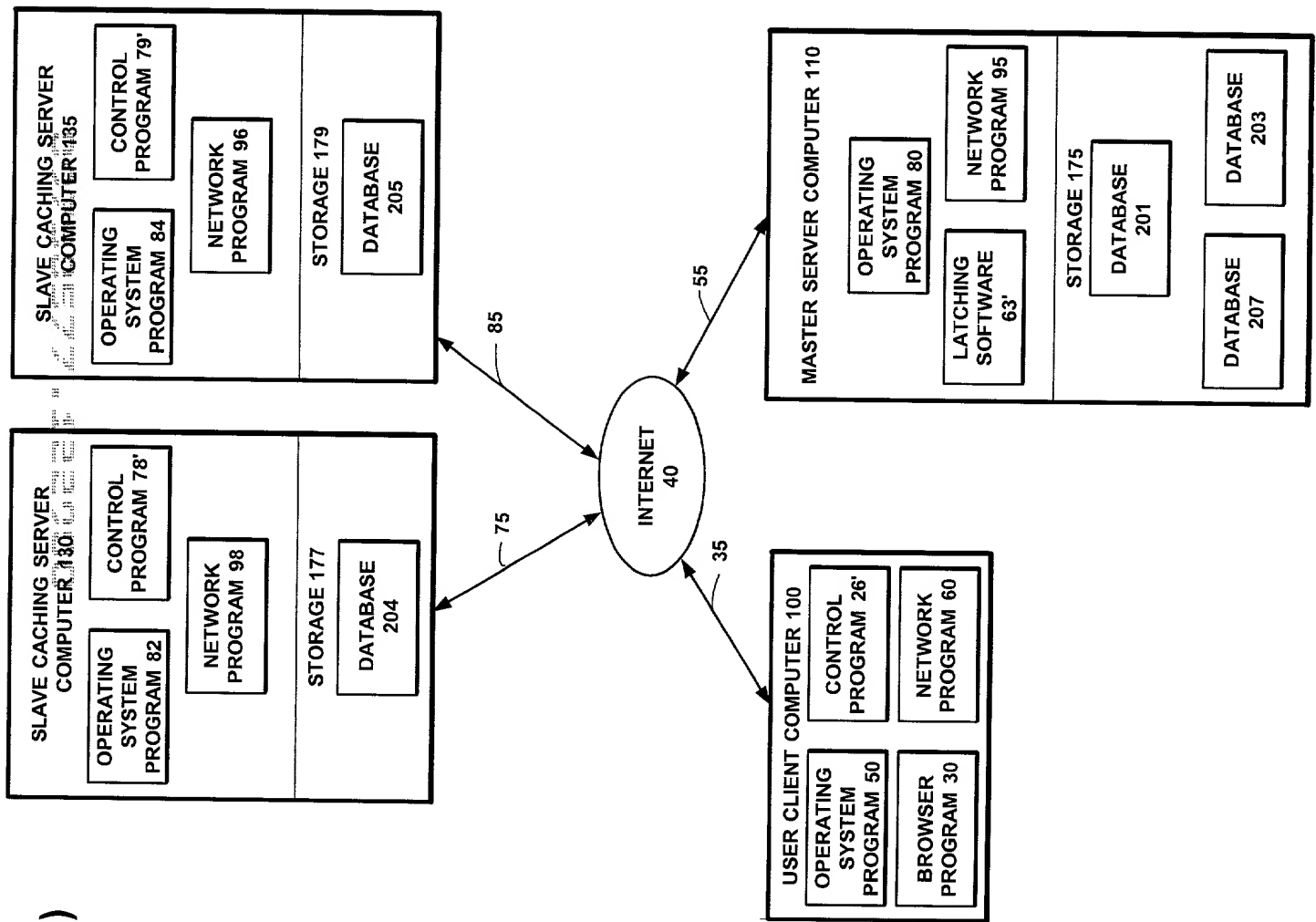


FIG. 2B(1)



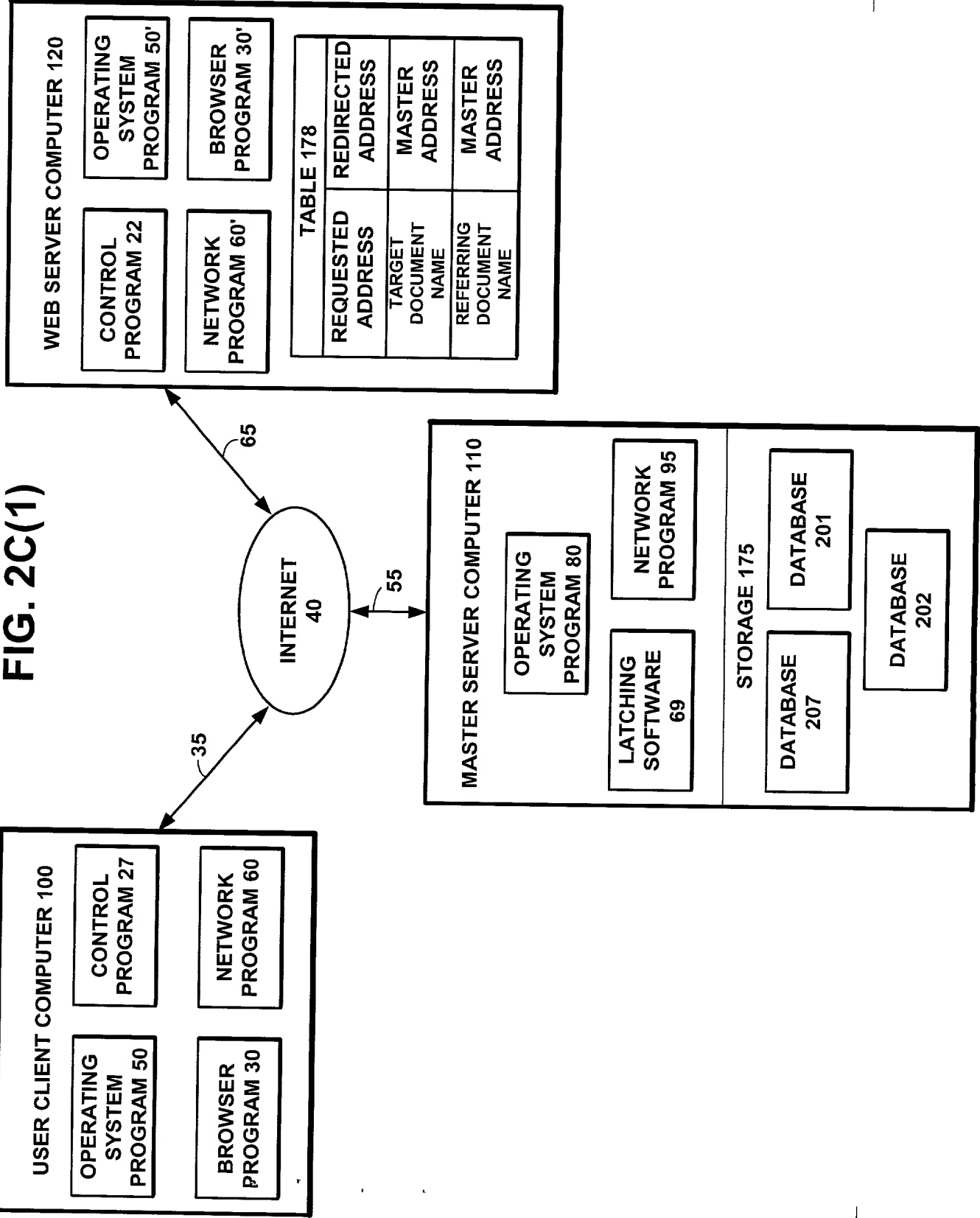
EPHRAIM FEIG
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FIG. 2B(2)



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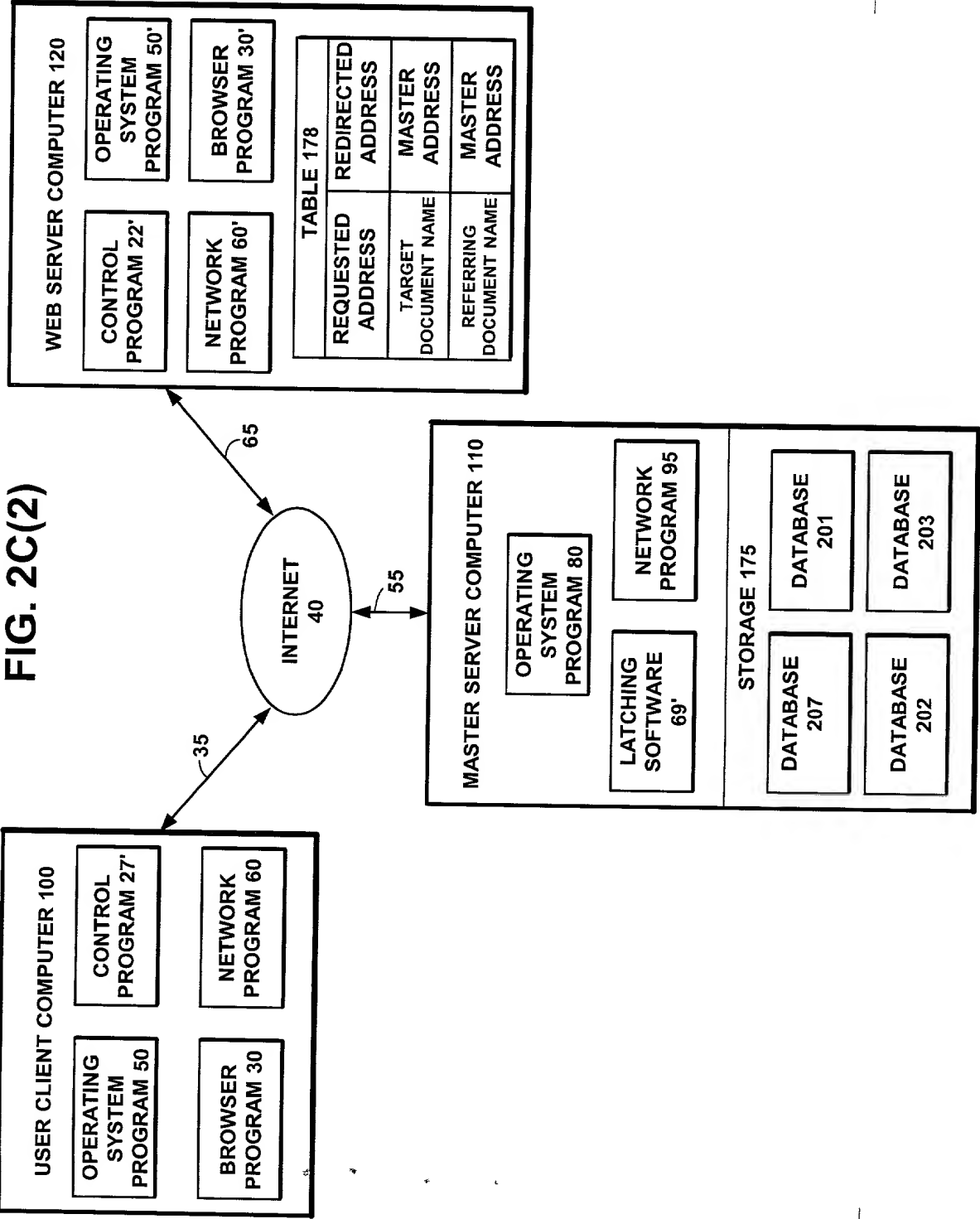


FIG. 2D(1)

EPHRAIM FEIG
A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

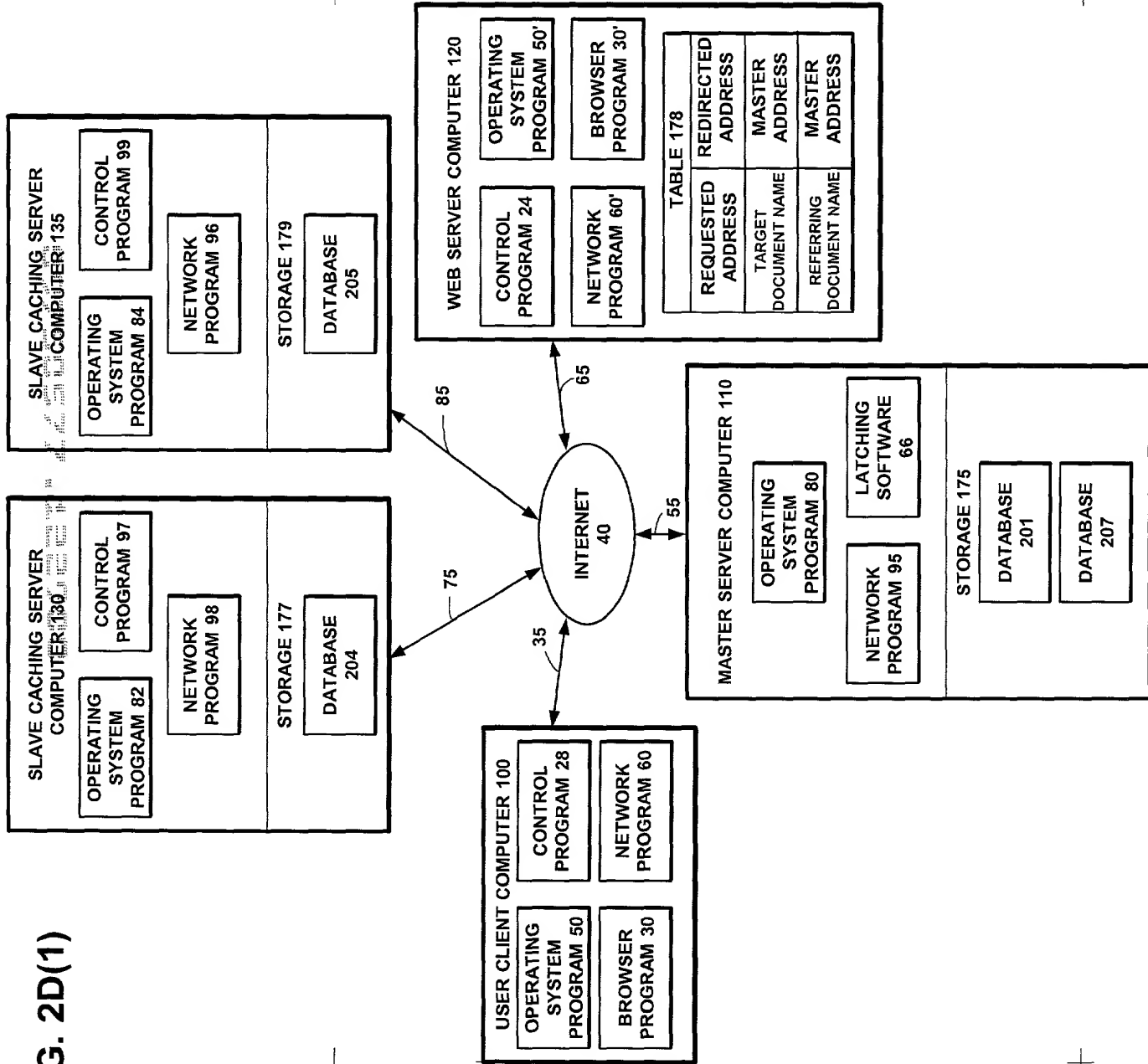


FIG. 2D(2)

EPHRAIM FEIG
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ATTACHMENTS IN DOCUMENTS

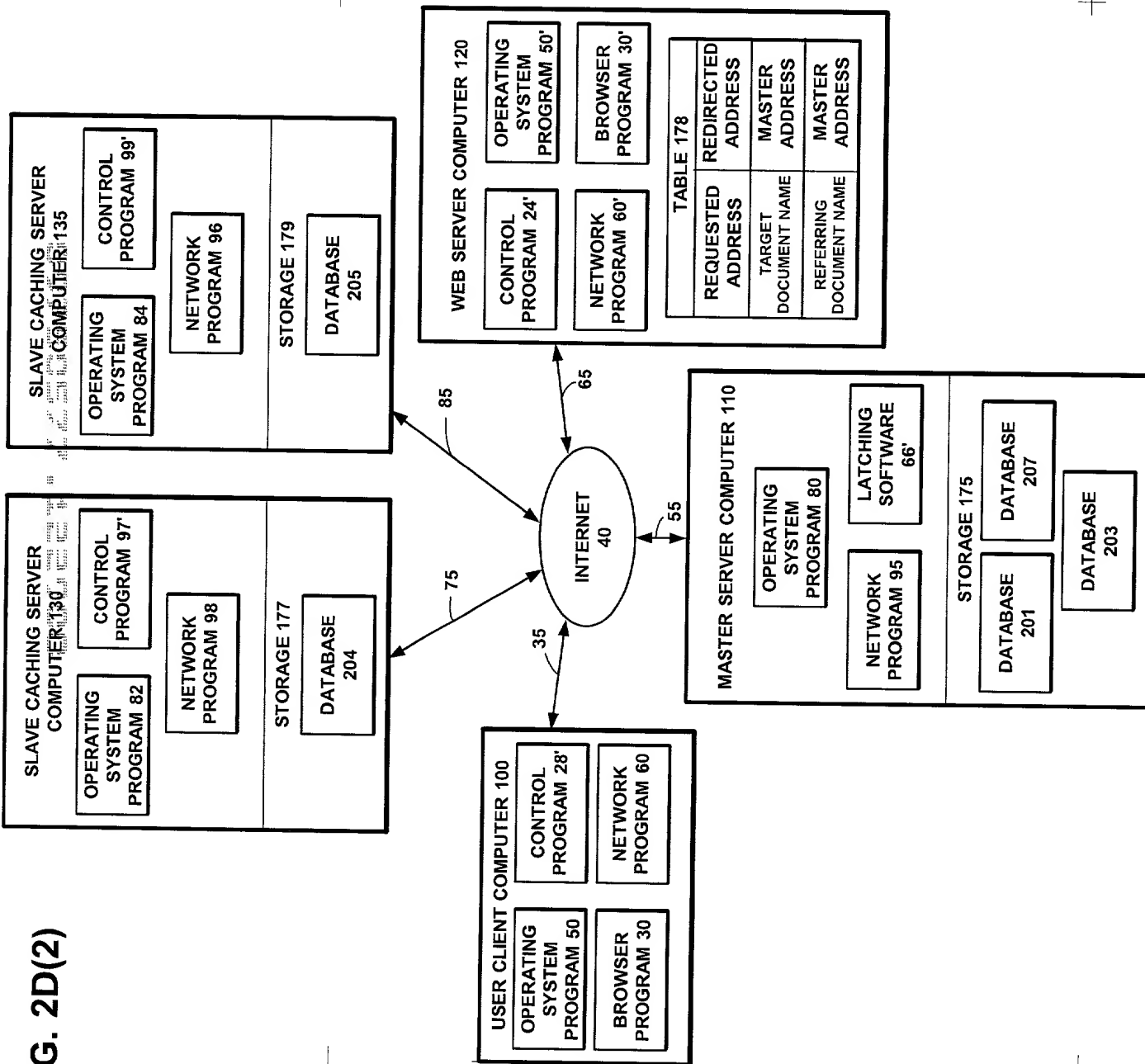


FIG. 3A(1)

STORAGE 173

MASTER110/

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DB201/

OWNER'S DATA BASE 201

DB207/

TARGET DOCUMENT DATA BASE 202

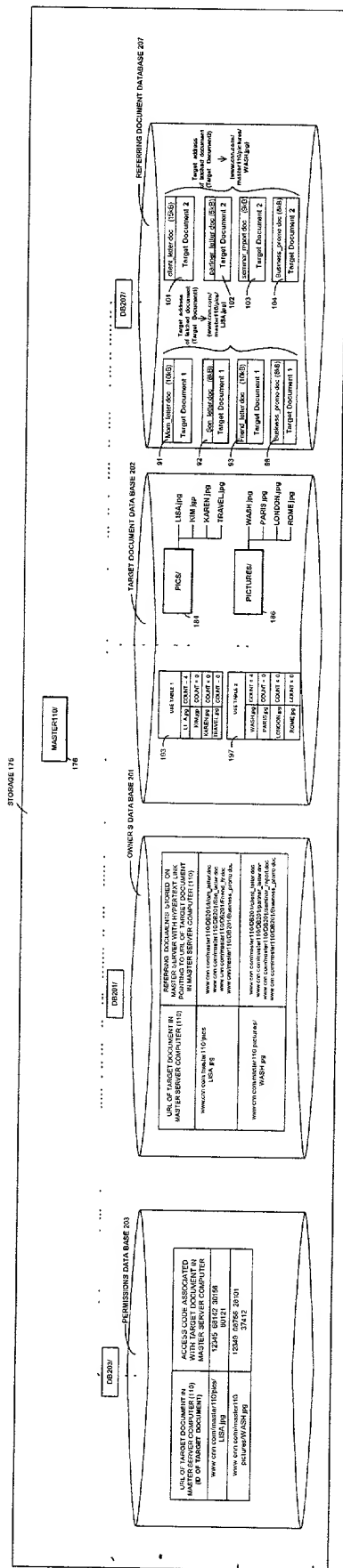
REFERRING DOCUMENT DATABASE 207

URL OF TARGET DOCUMENT IN MASTER SERVER COMPUTER (110) (ID OF TARGET DOCUMENT)	REFERRING DOCUMENTS STORED ON MASTER SERVER COMPUTER (110) (ID OF TARGET DOCUMENT IN MASTER SERVER)
www.cnn.com/master110/pics/LISA.jpg	www.cnn.com/master110/DB207/Mom_letter.doc
www.cnn.com/master110/pictures/WASH.jpg	www.cnn.com/master110/DB207/partner_report.doc
	www.cnn.com/master110/DB207/Business_promo.doc

USE TABLE 1	USE TABLE 2
LISA.jpg COUNT = 4	WASH.jpg COUNT = 4
KIM.jpg COUNT = 6	PARIS.jpg COUNT = 6
KAREN.jpg COUNT = 8	LONDON.jpg COUNT = 6
TRAVEL.jpg COUNT = 9	ROME.jpg COUNT = 6

101	102	103	104
Target address of linked document (target document)	Target address (www.cnn.com/master10/pics/LISA.jpg)	Target address (www.cnn.com/master10/pictures/WASH.jpg)	Target address (www.cnn.com/master10/pictures/WASH.jpg)
Mom_letter.doc (10x8)	client_letter.doc (15x8)	partner_report.doc (8x8)	Business_promo.doc (8x8)
Target Document 1	Target Document 2	Target Document 2	Target Document 2

FIG. 3A(1)



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DB201/

OWNER'S DATA BASE 201

DB207/

REFERRING DOCUMENT DATABASE 207

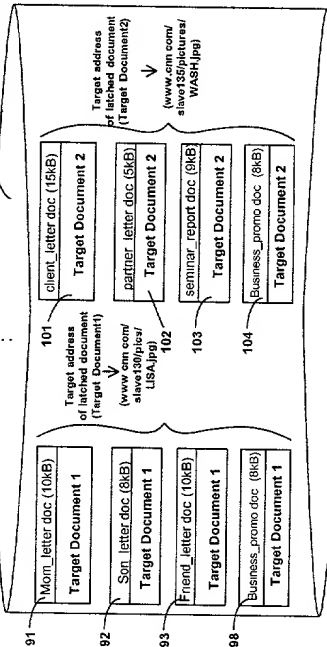
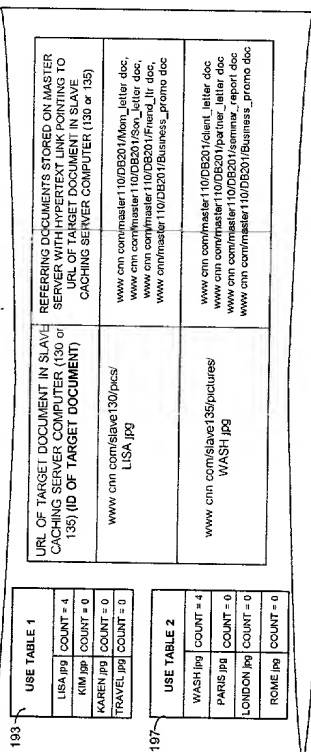


FIG. 3B(1)

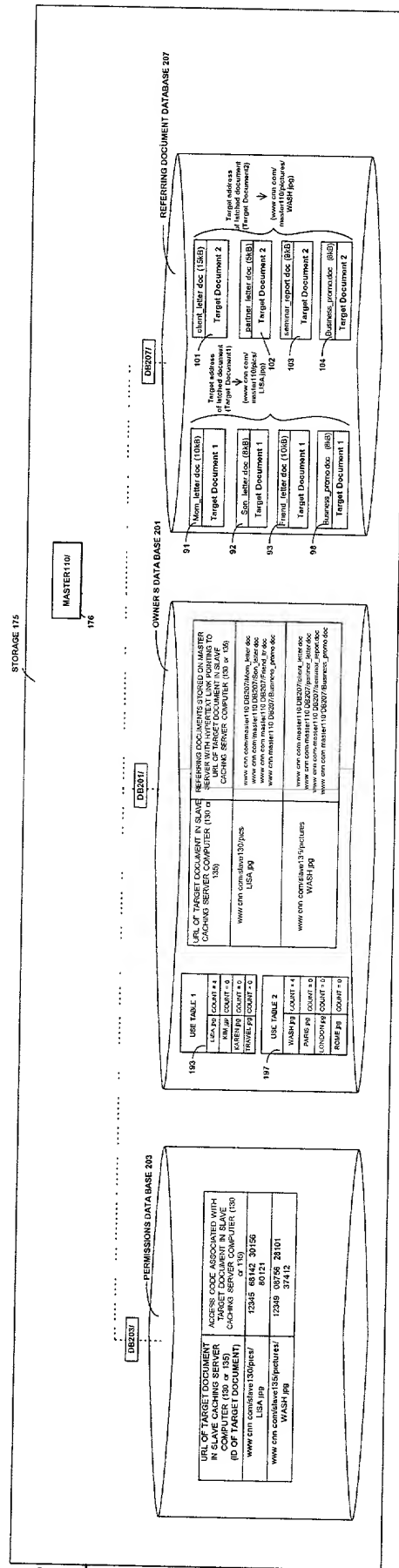


FIG. 3C(1)

STORAGE 175

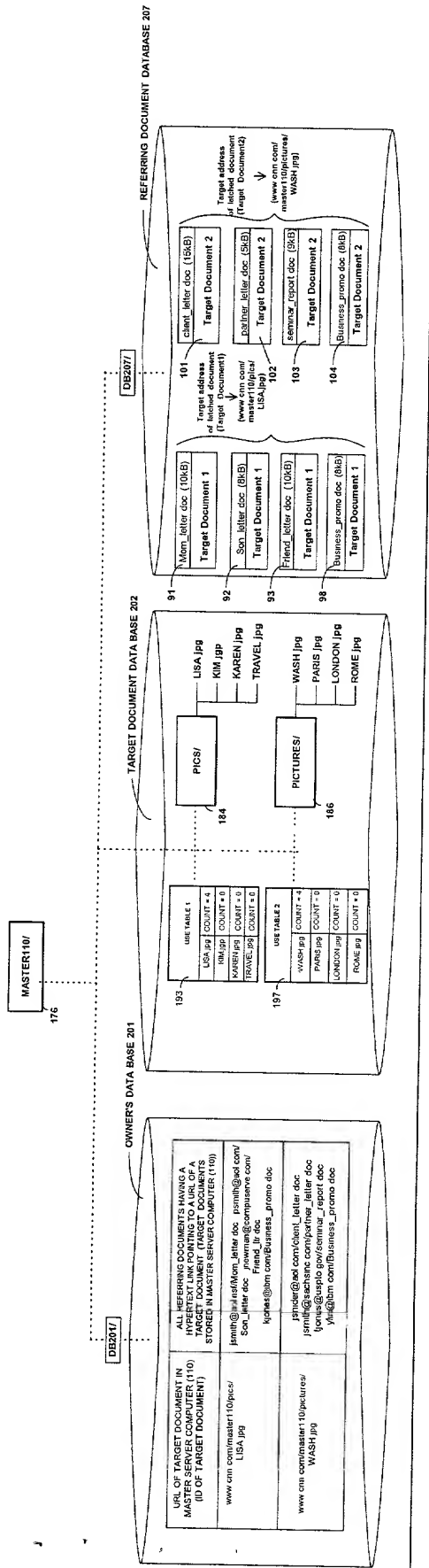
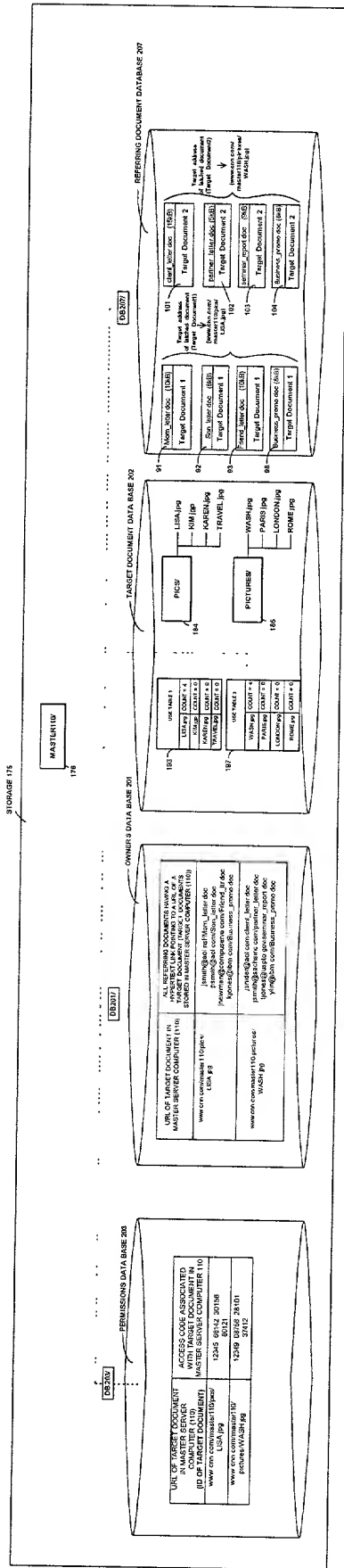


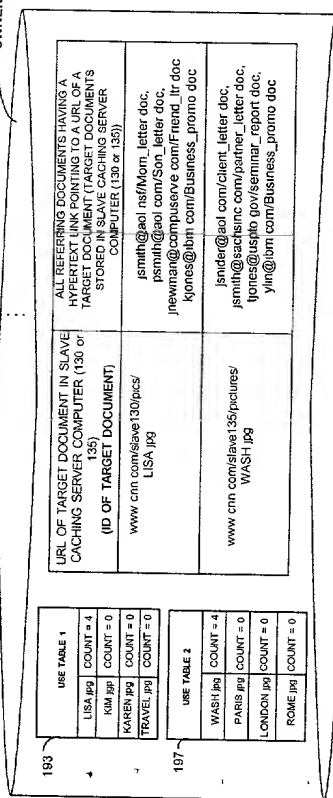
FIG. 3C(2)



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OWNER'S DATA BASE 201



REFERRING DOCUMENT DATABASE 207

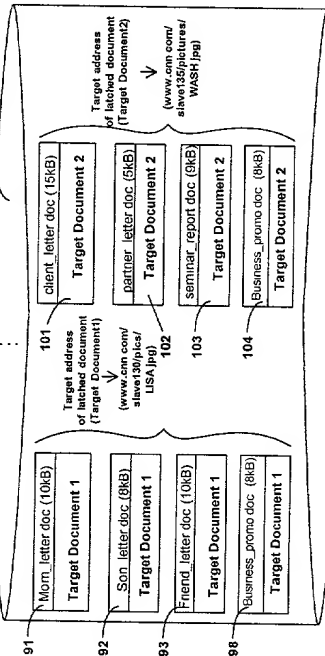


FIG. 3C(3)

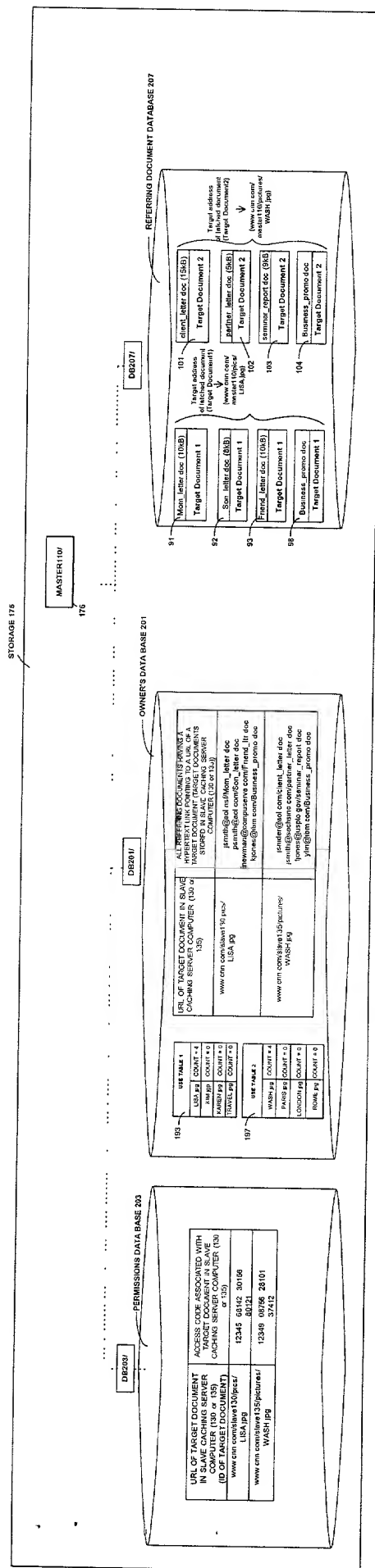


FIG. 4

STORAGE 177

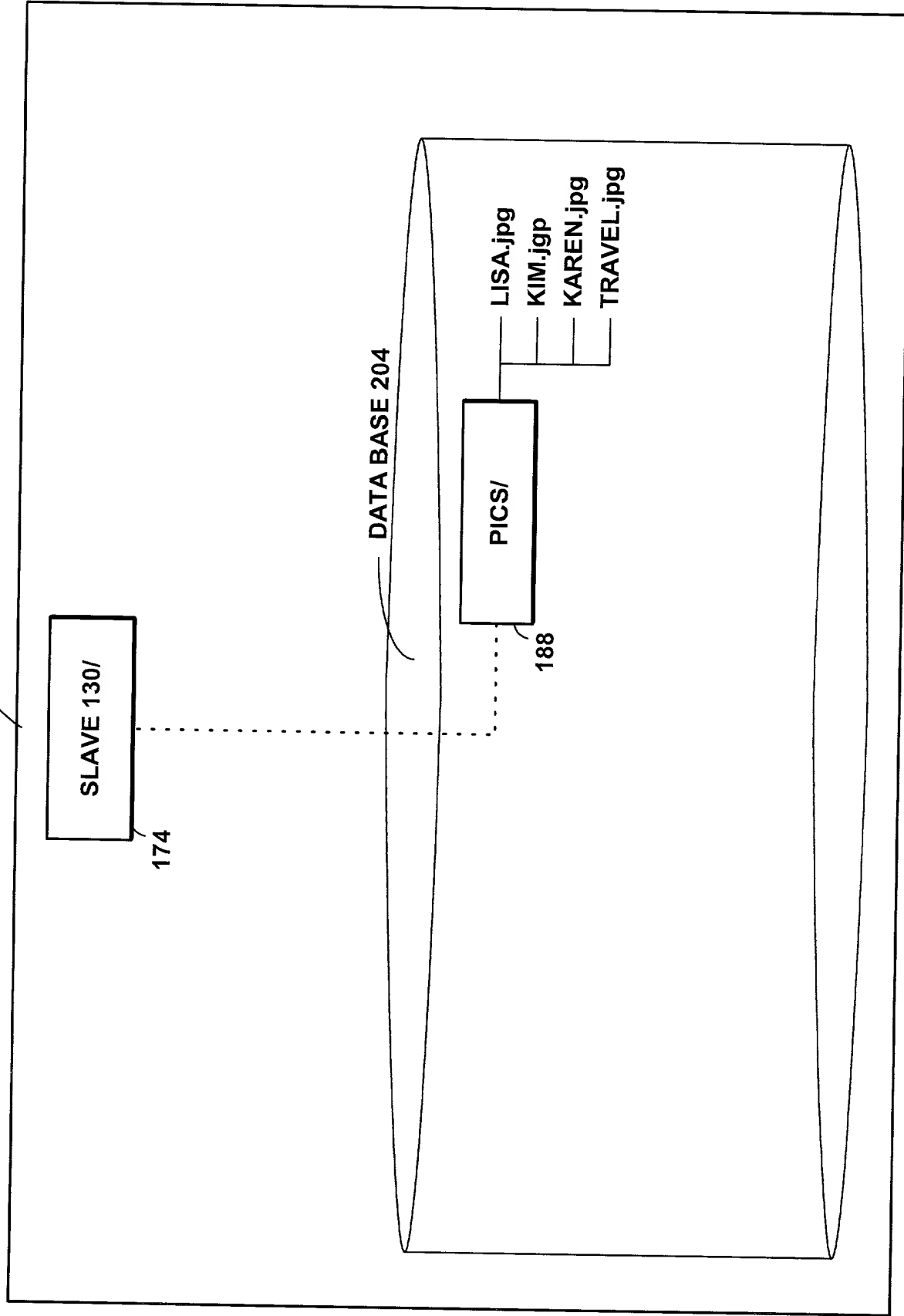


FIG. 5

STORAGE 179

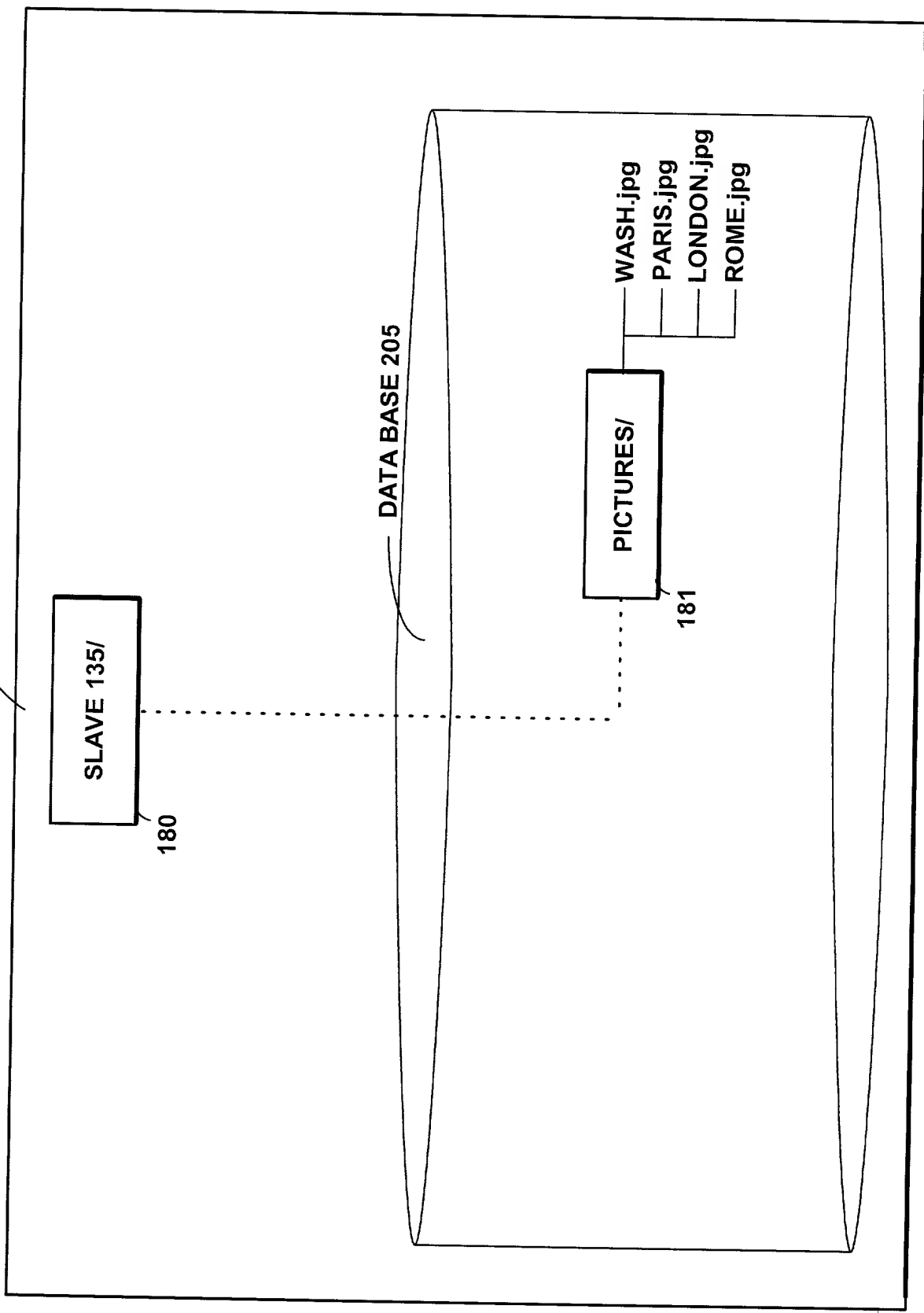


FIG. 6A(1)

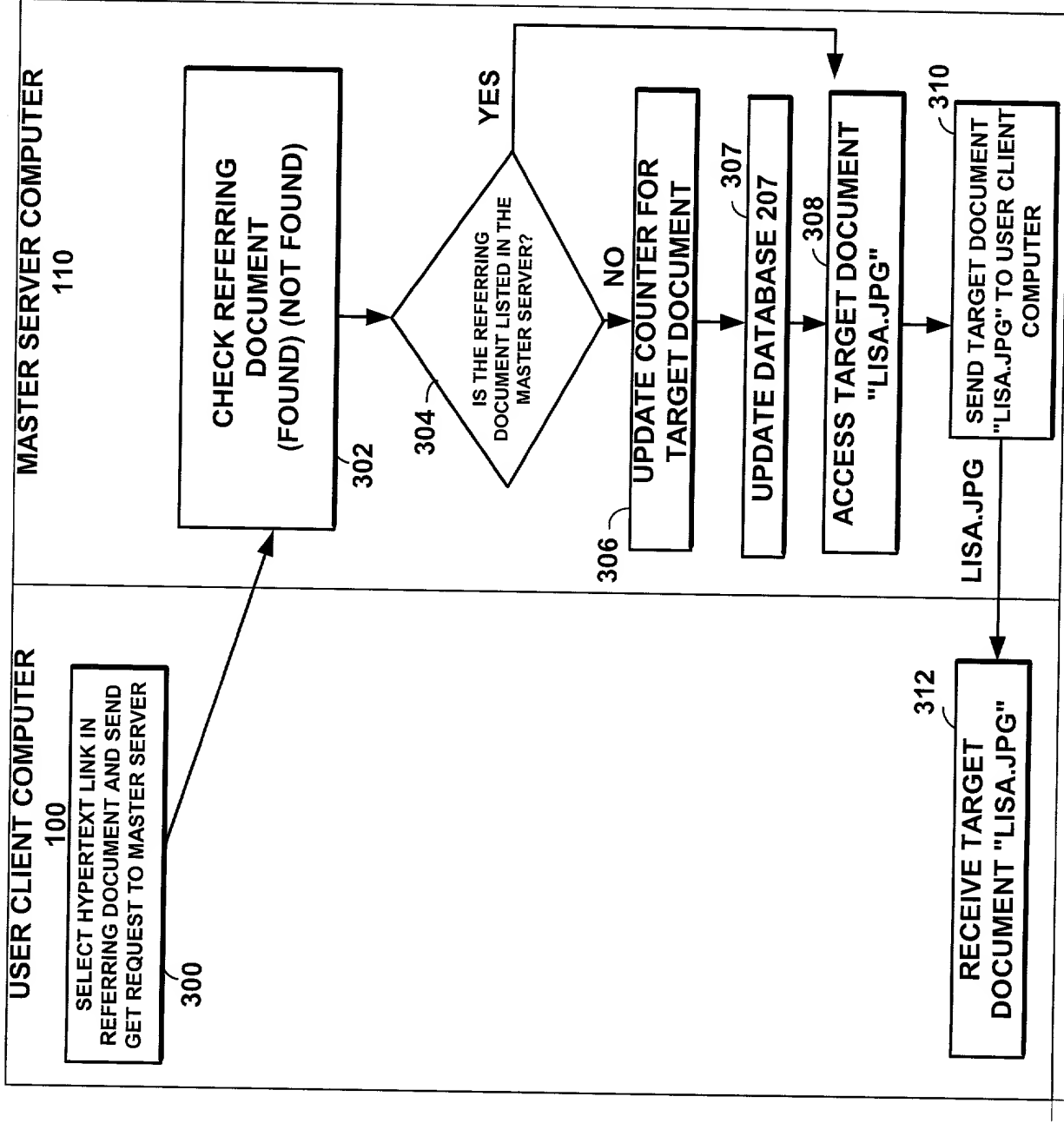


FIG. 6A(2)

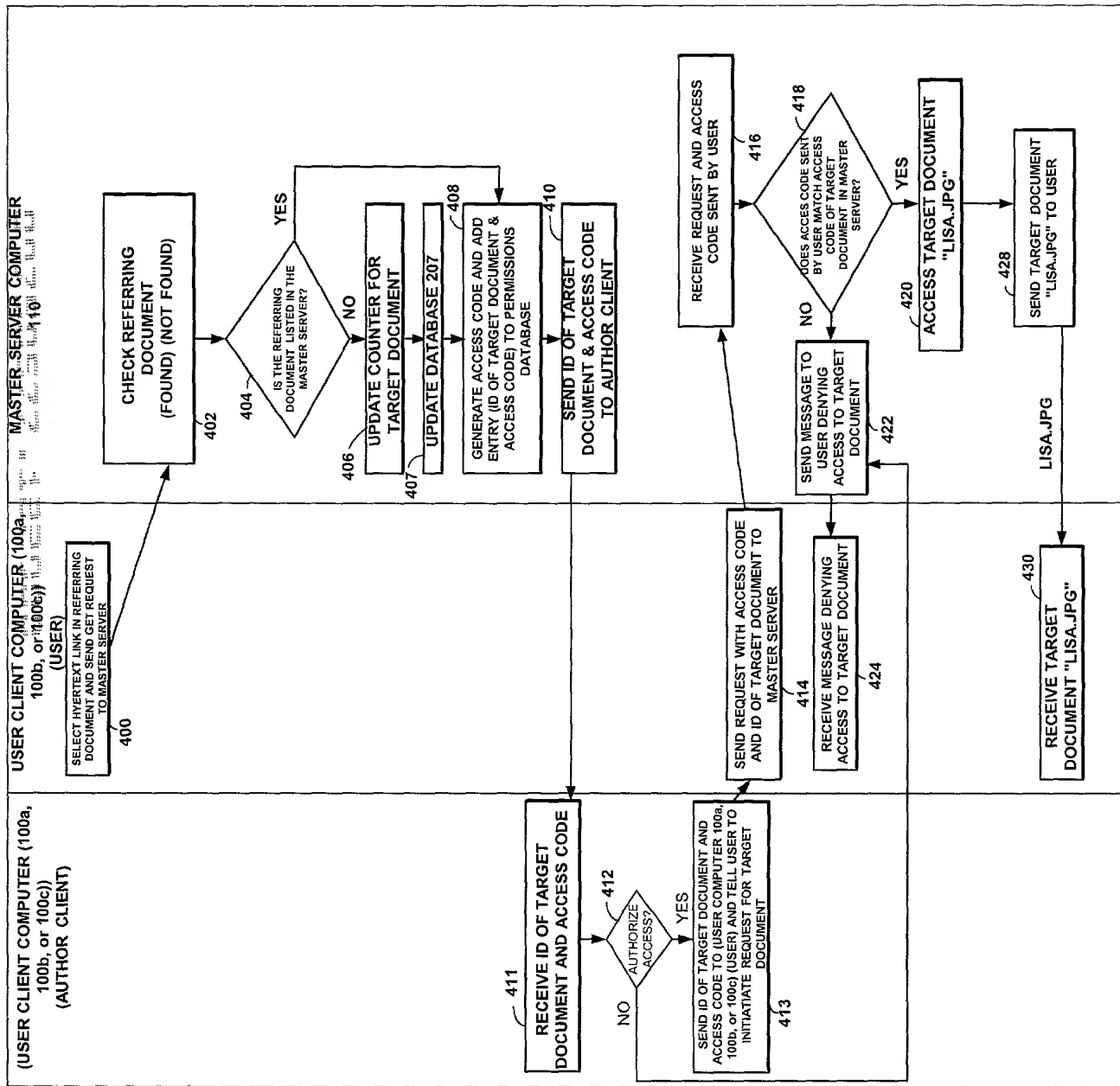


FIG. 6B(1)

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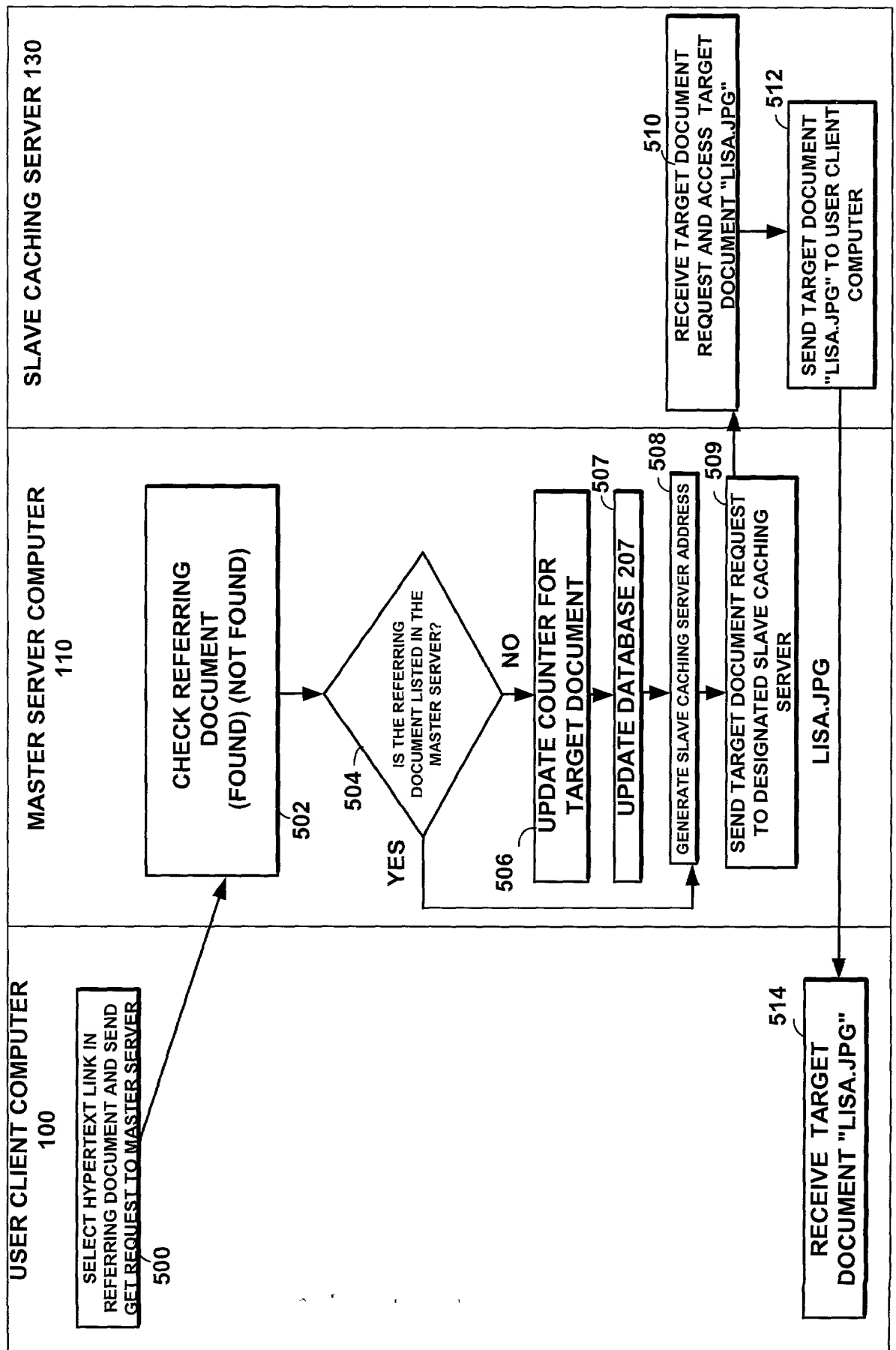


FIG. 6B(2)

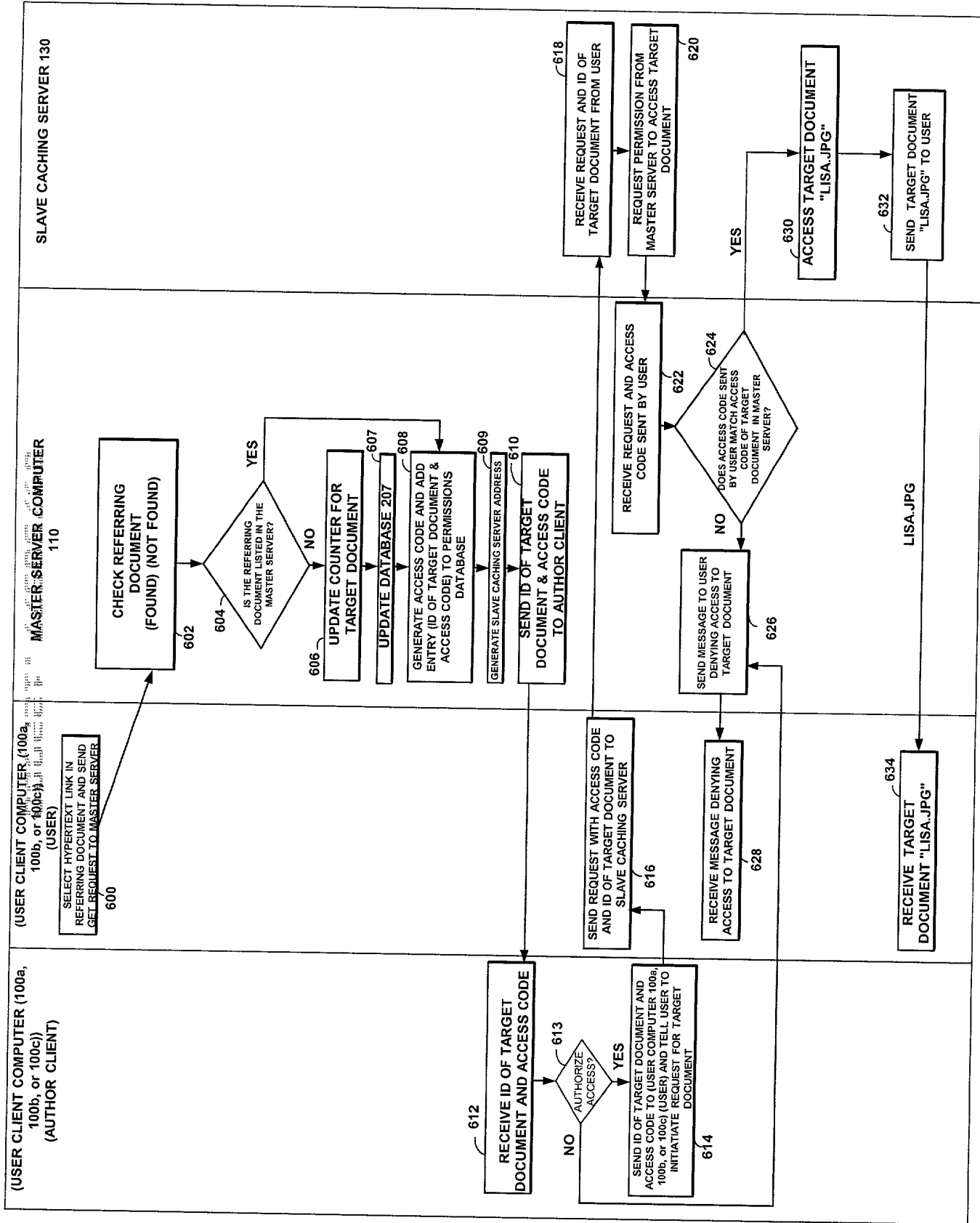


FIG. 6C(1)

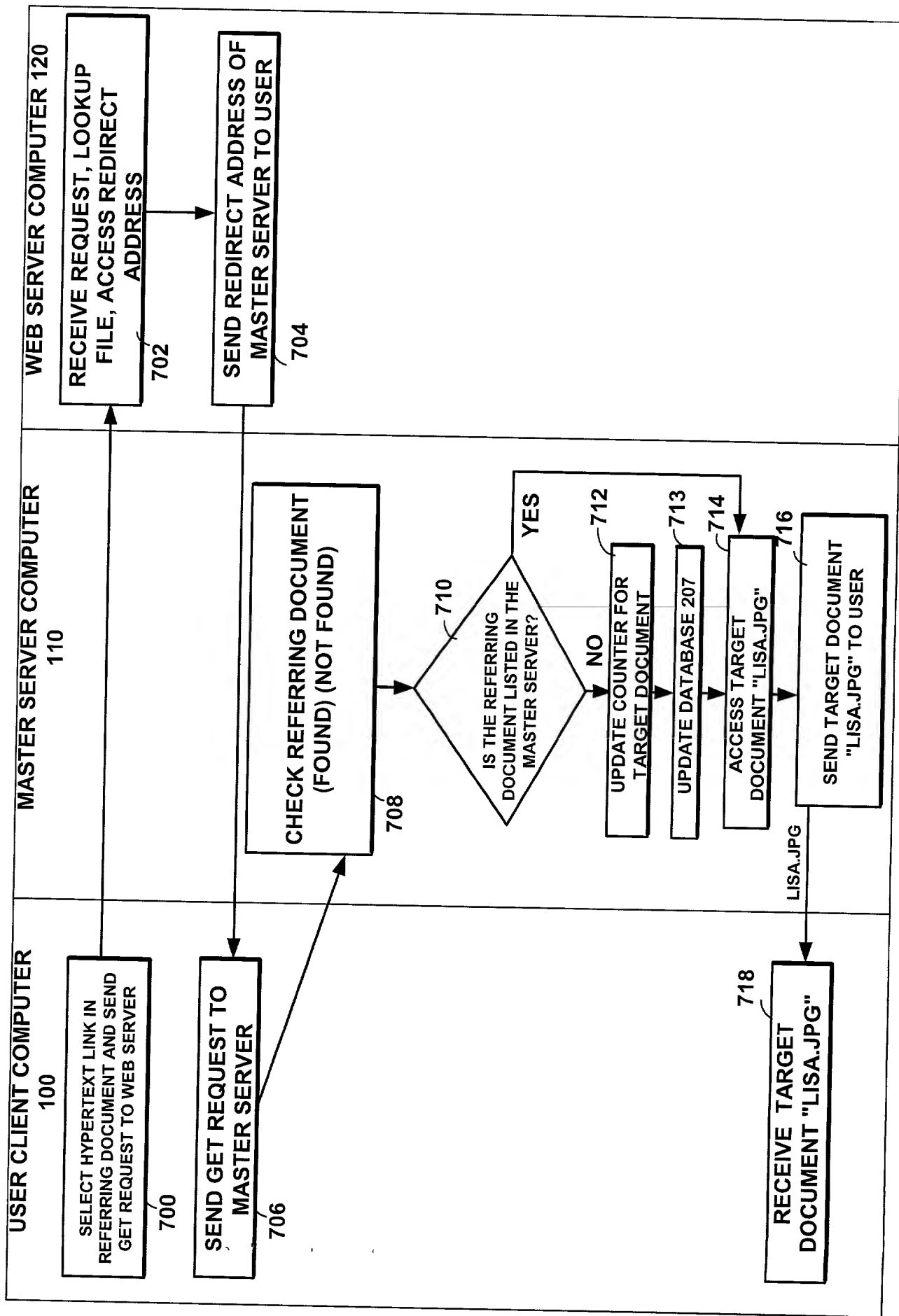


FIG. 6C(2)

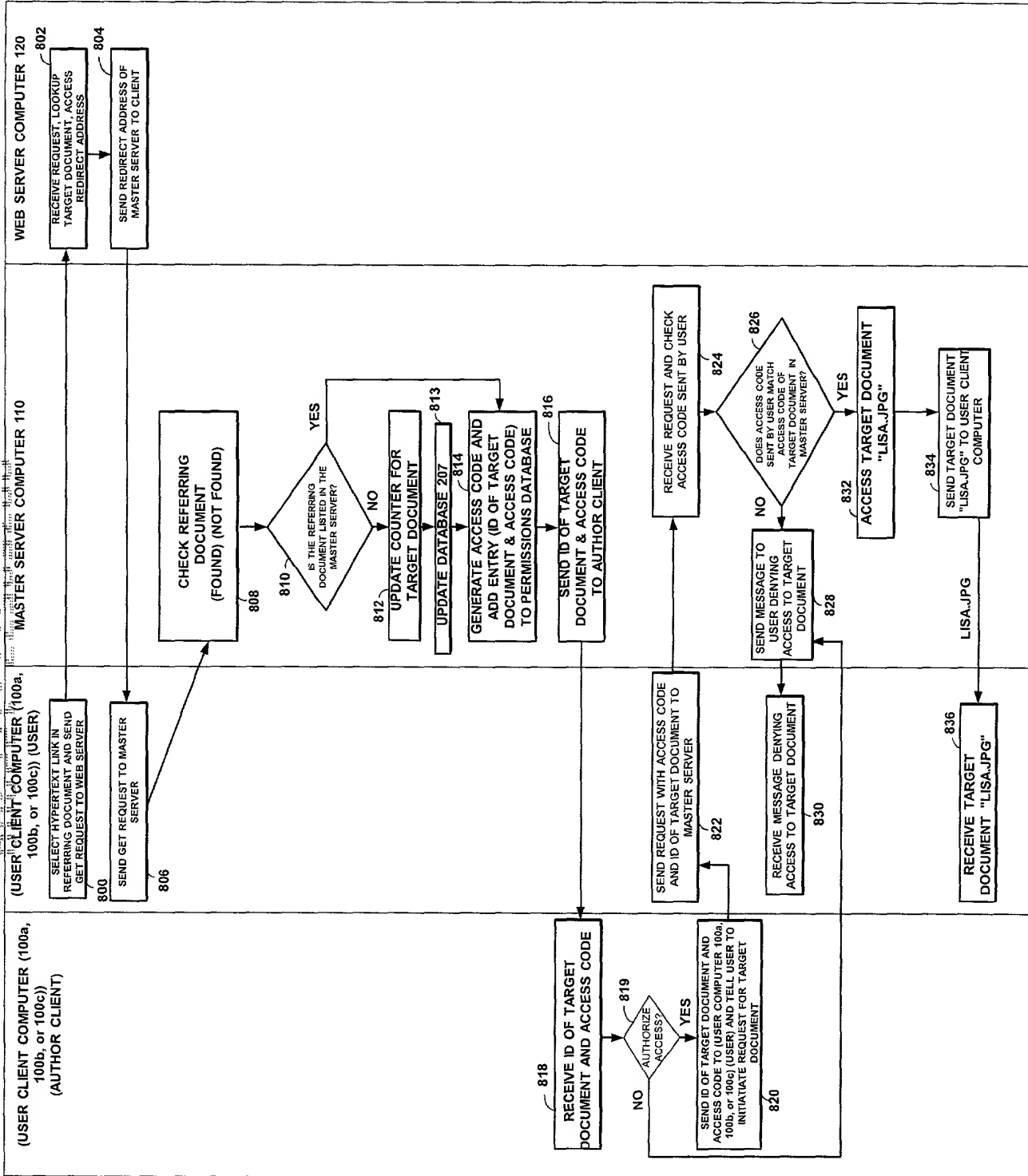
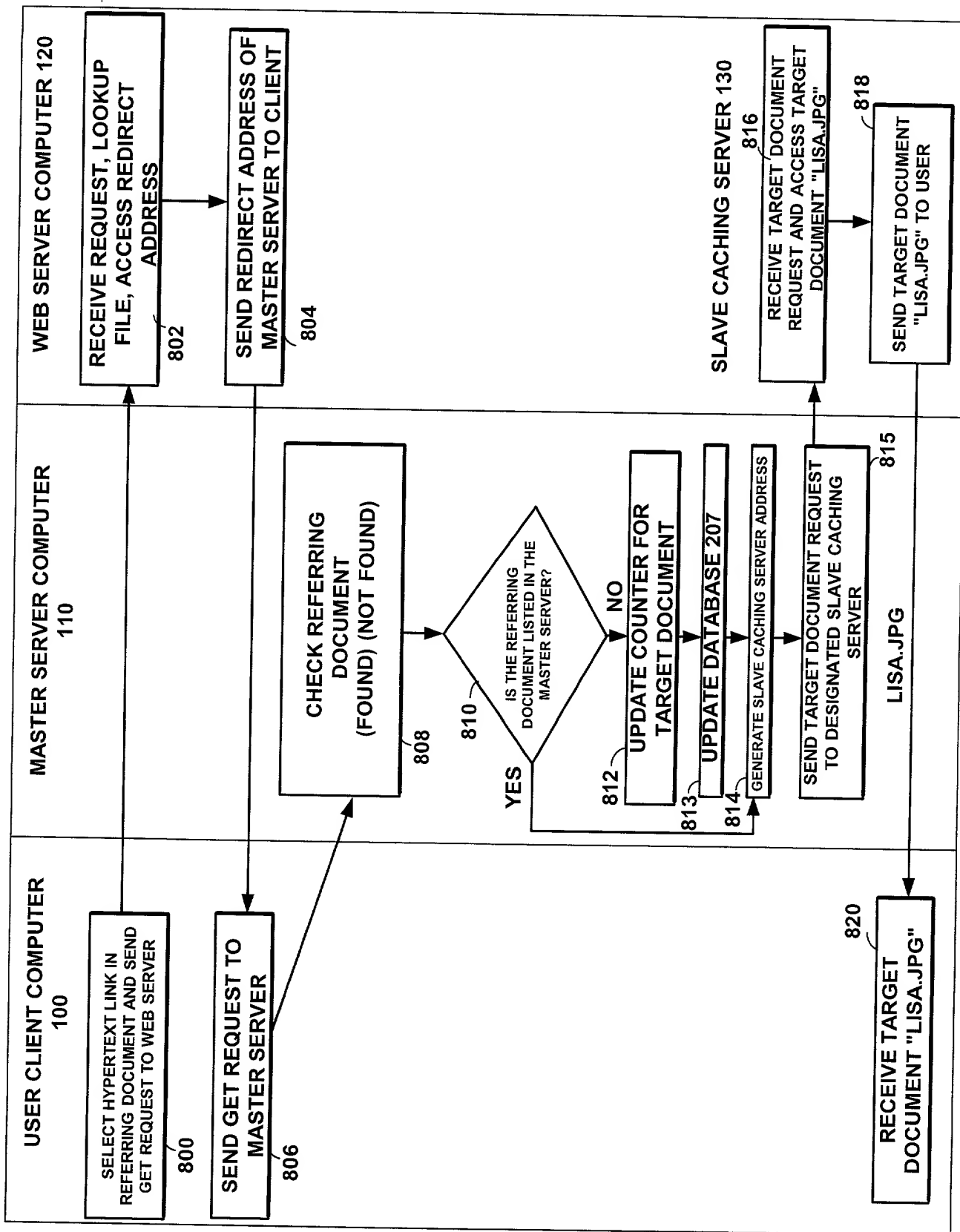


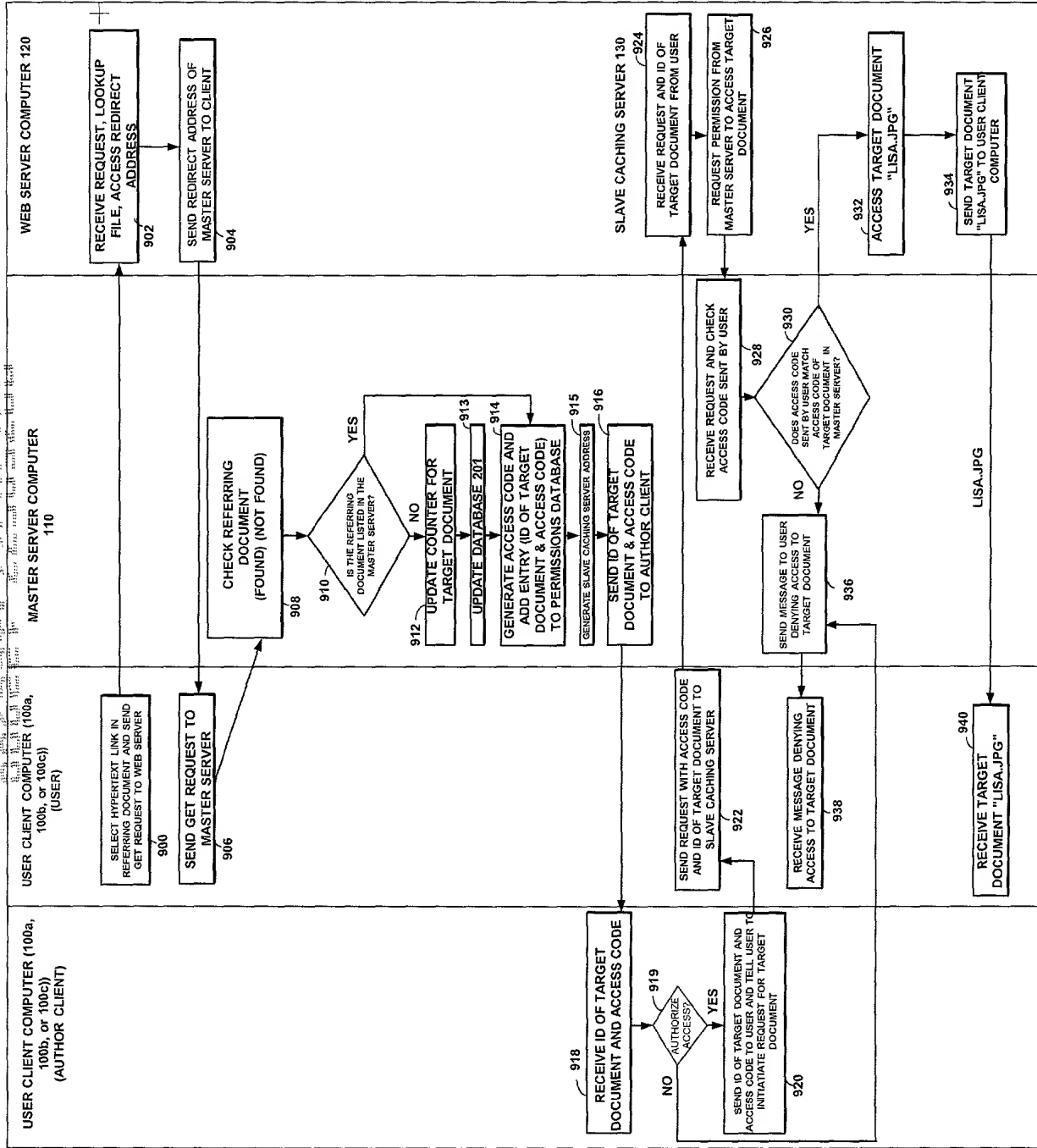
FIG. 6D(1)

EPHRAIM FEIG
A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

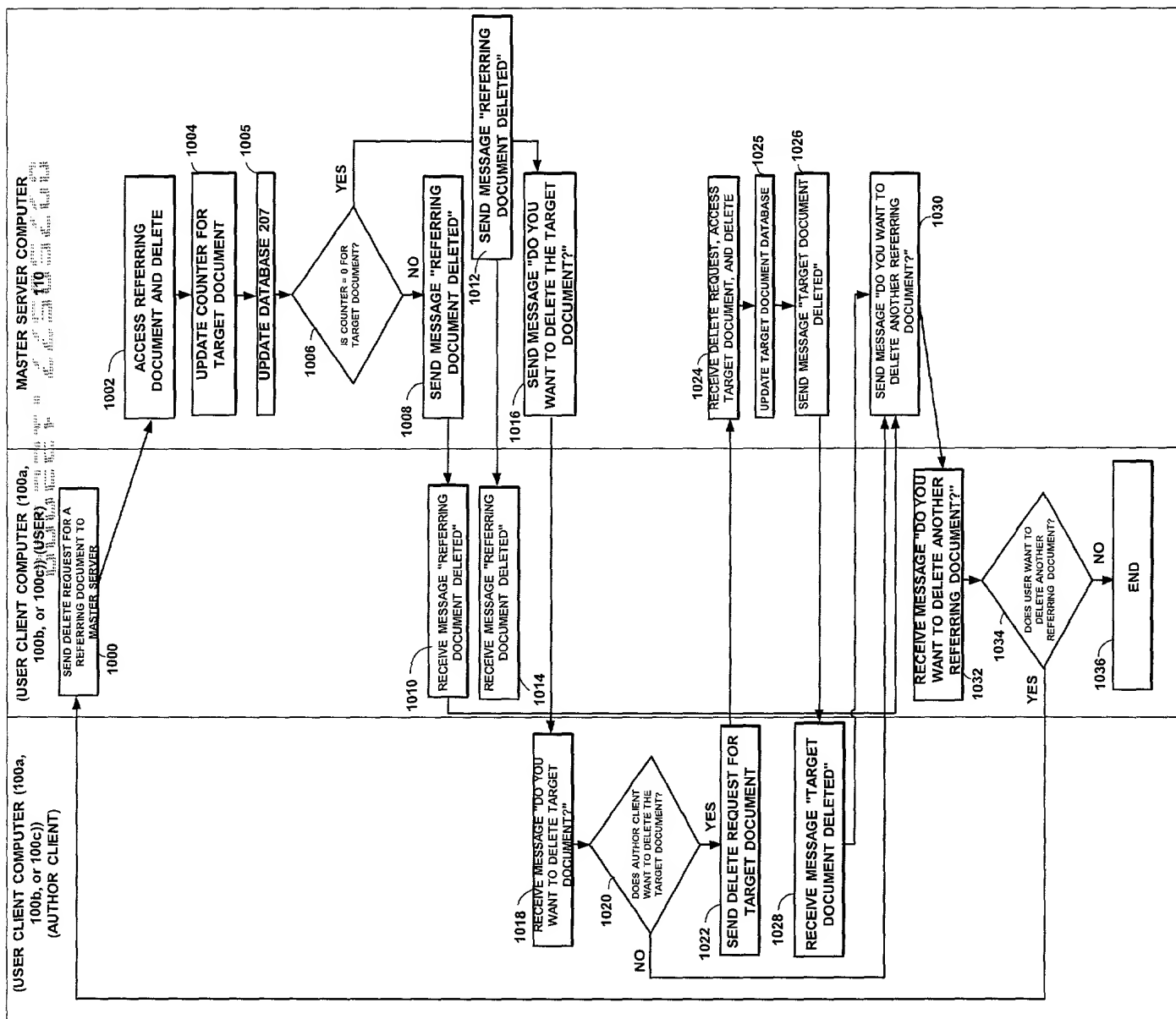


EPHRAIM FEIG
A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

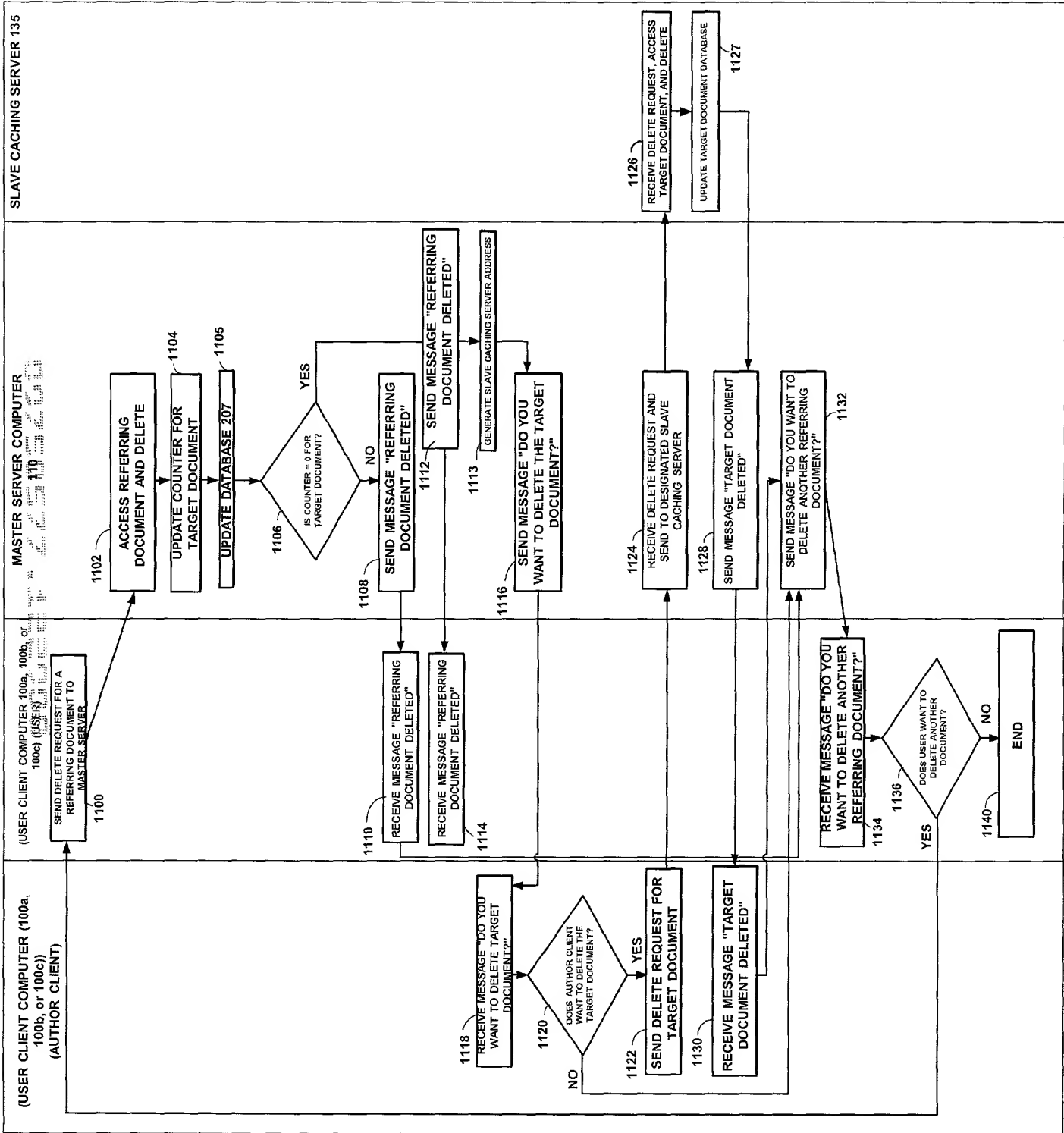
FIG. 6D(2)



EPHRAIM FEIG
A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS



EPHRAIM FEIG
A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS



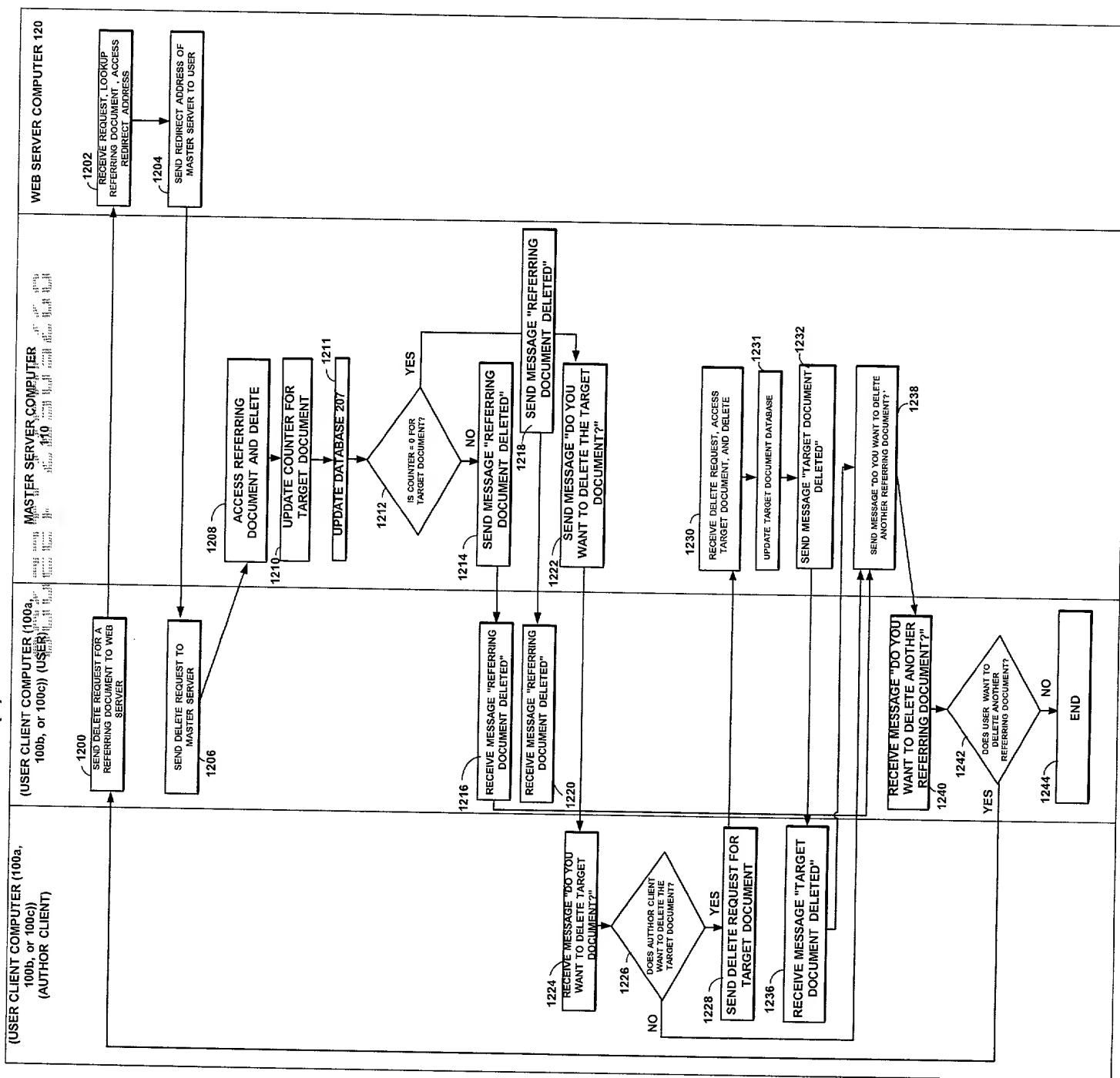


FIG. 7D(1)

EPHRAIM FEIG
A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

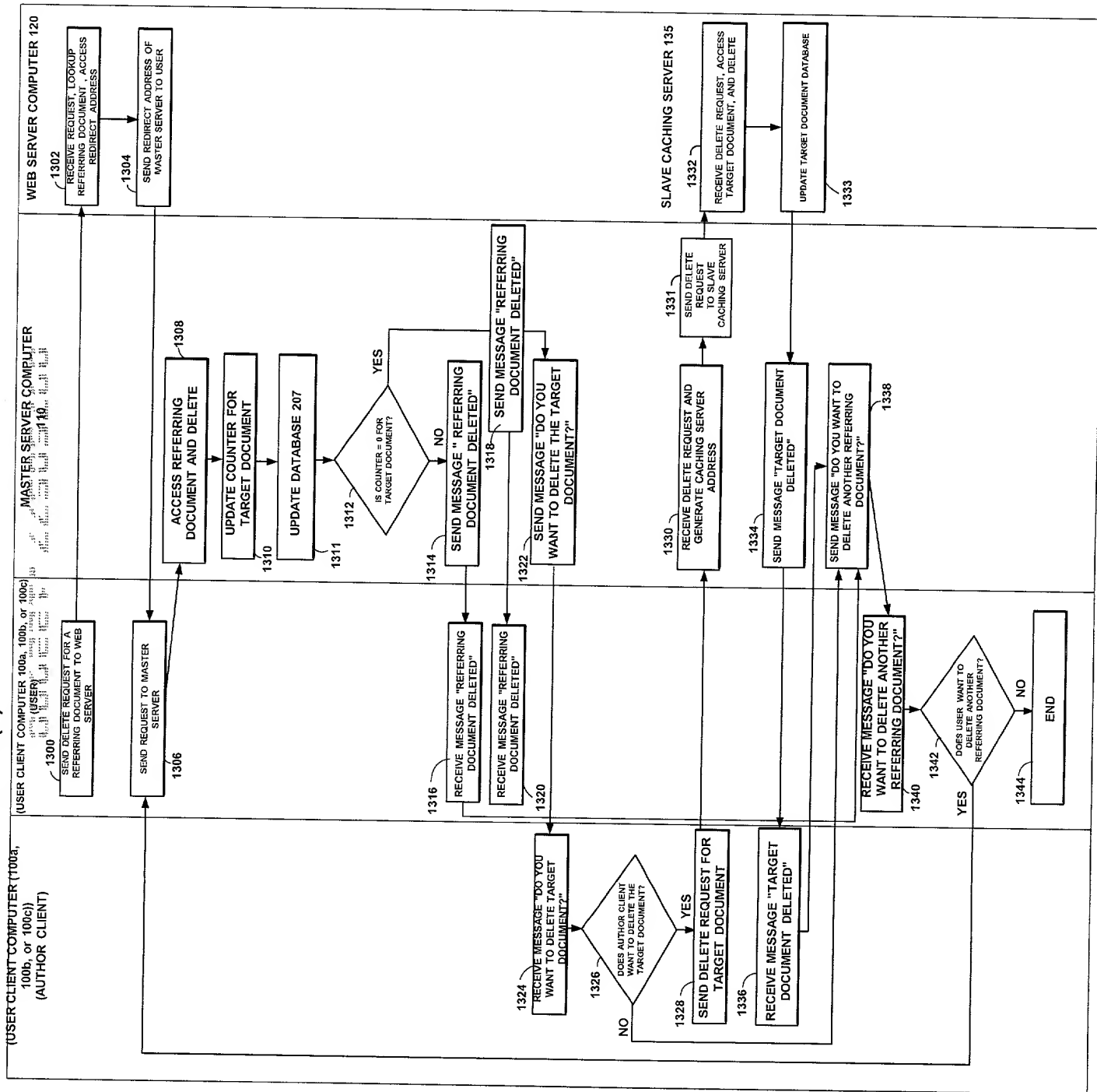


FIG. 8A(1)

EPHRAIM FEIG
A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

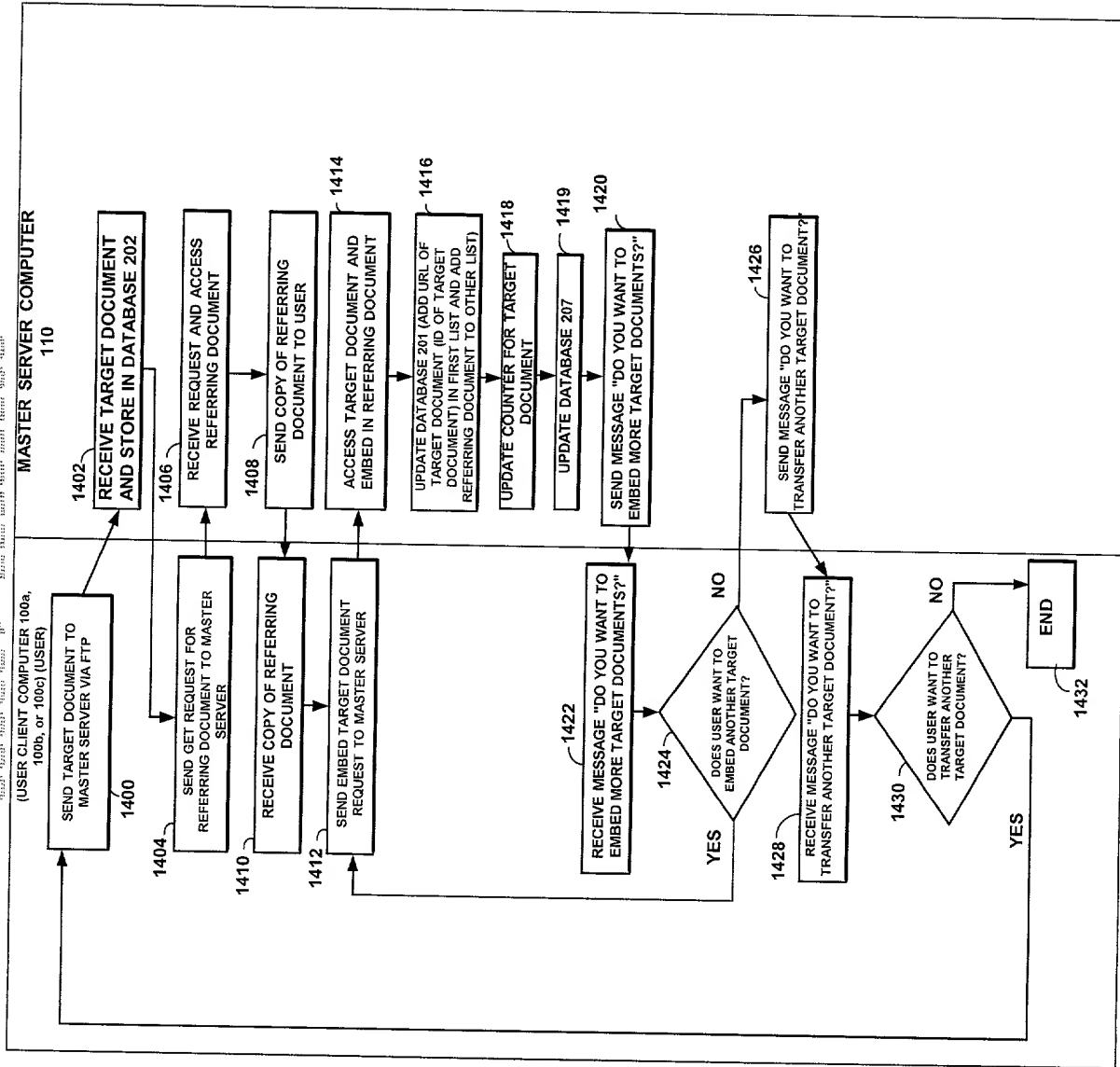
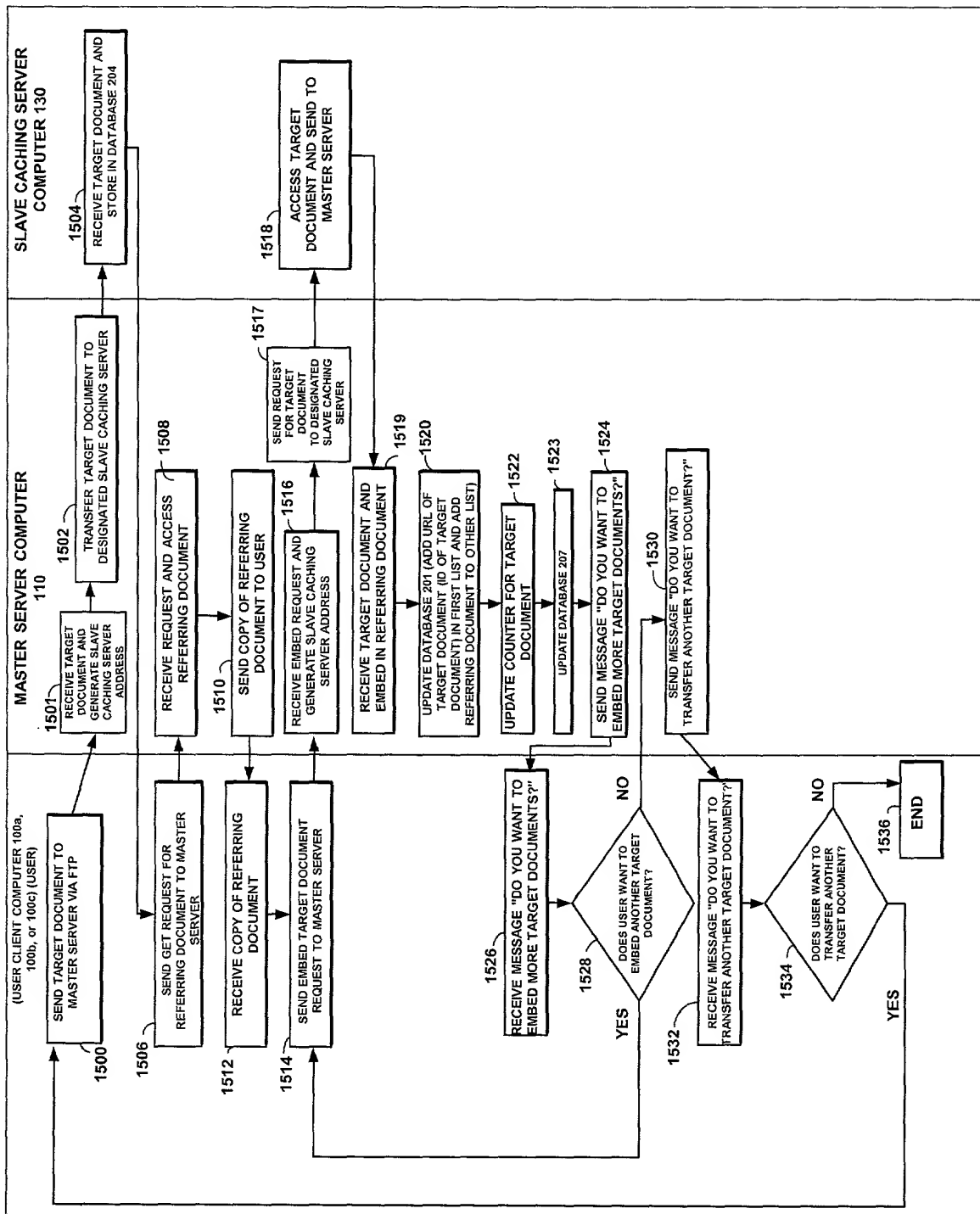
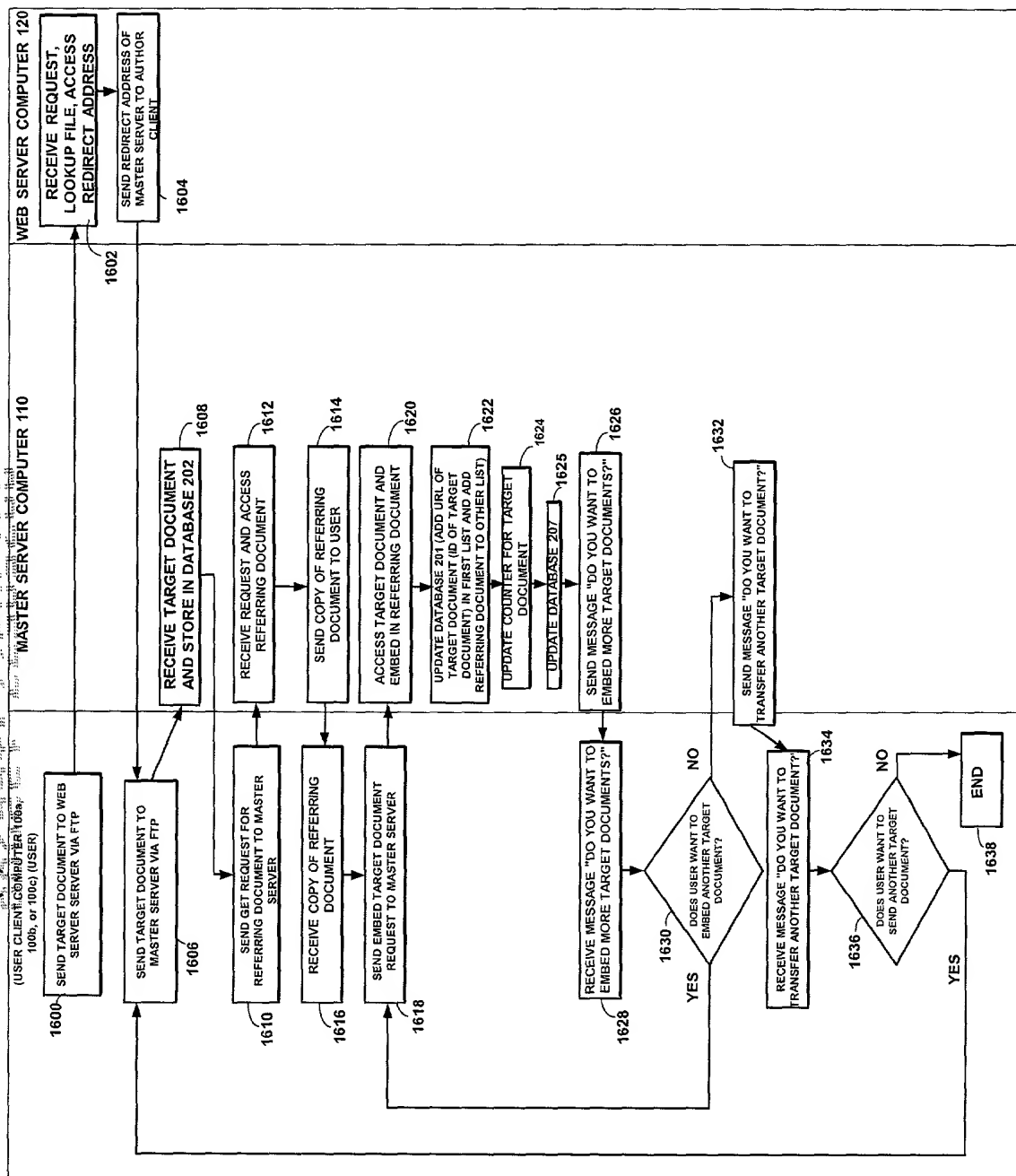


FIG. 8B(1)



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FIG. 8C(1)



EPHRAIM FEIG
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ATTACHMENTS IN DOCUMENTS

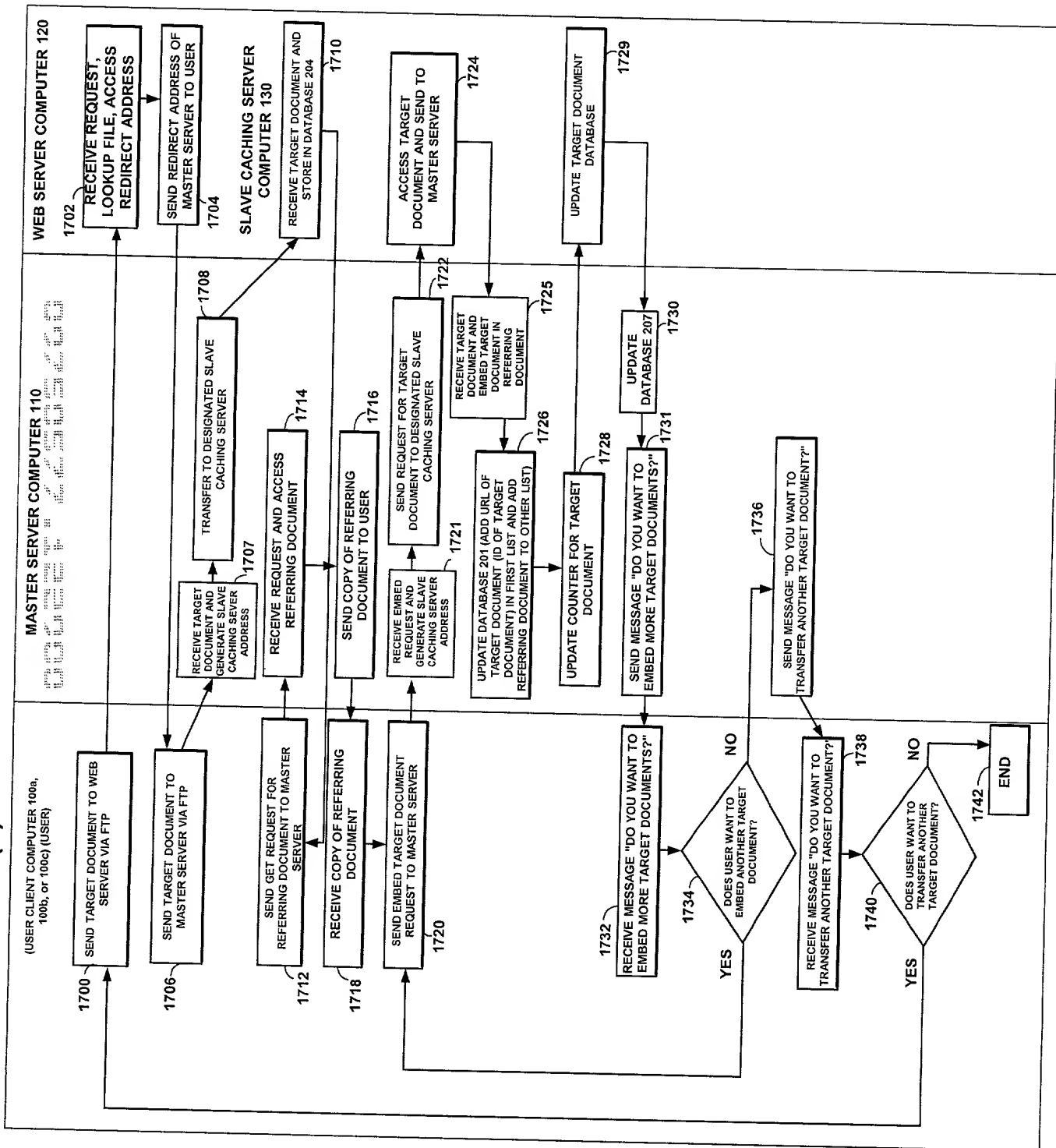
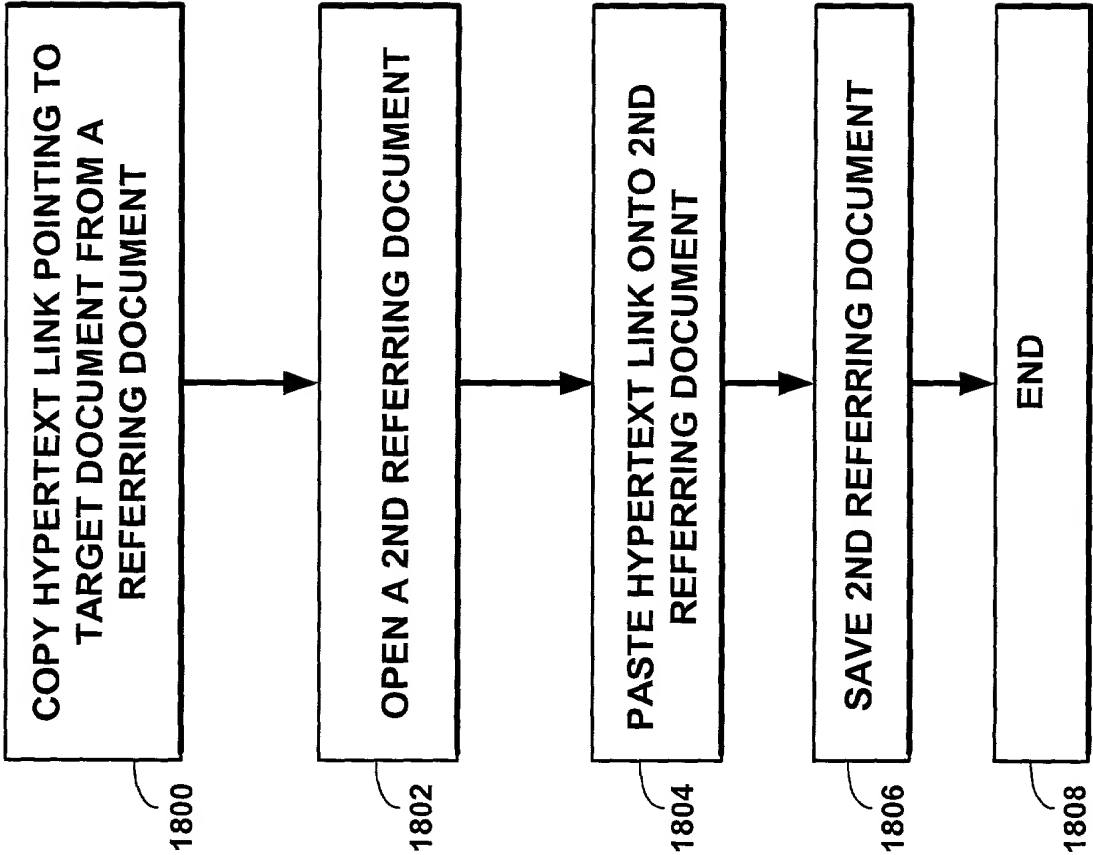


FIG. 9



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A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

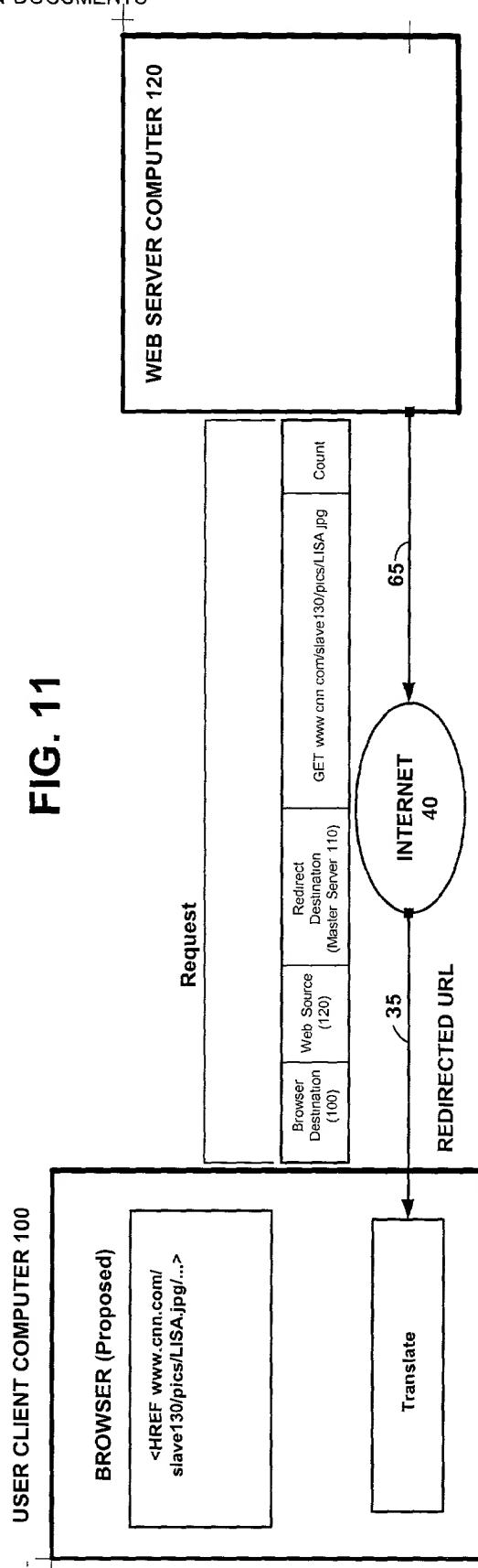
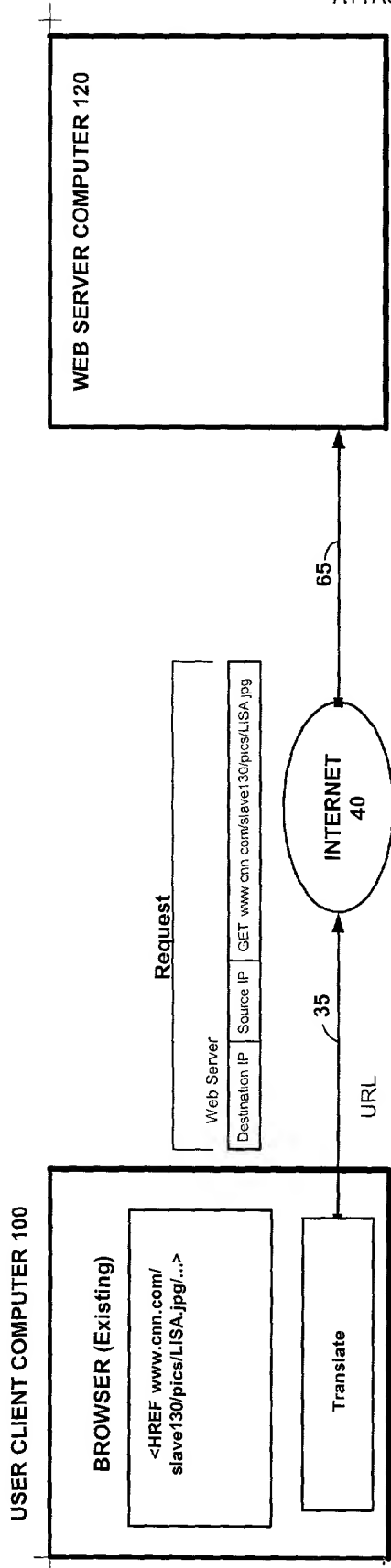
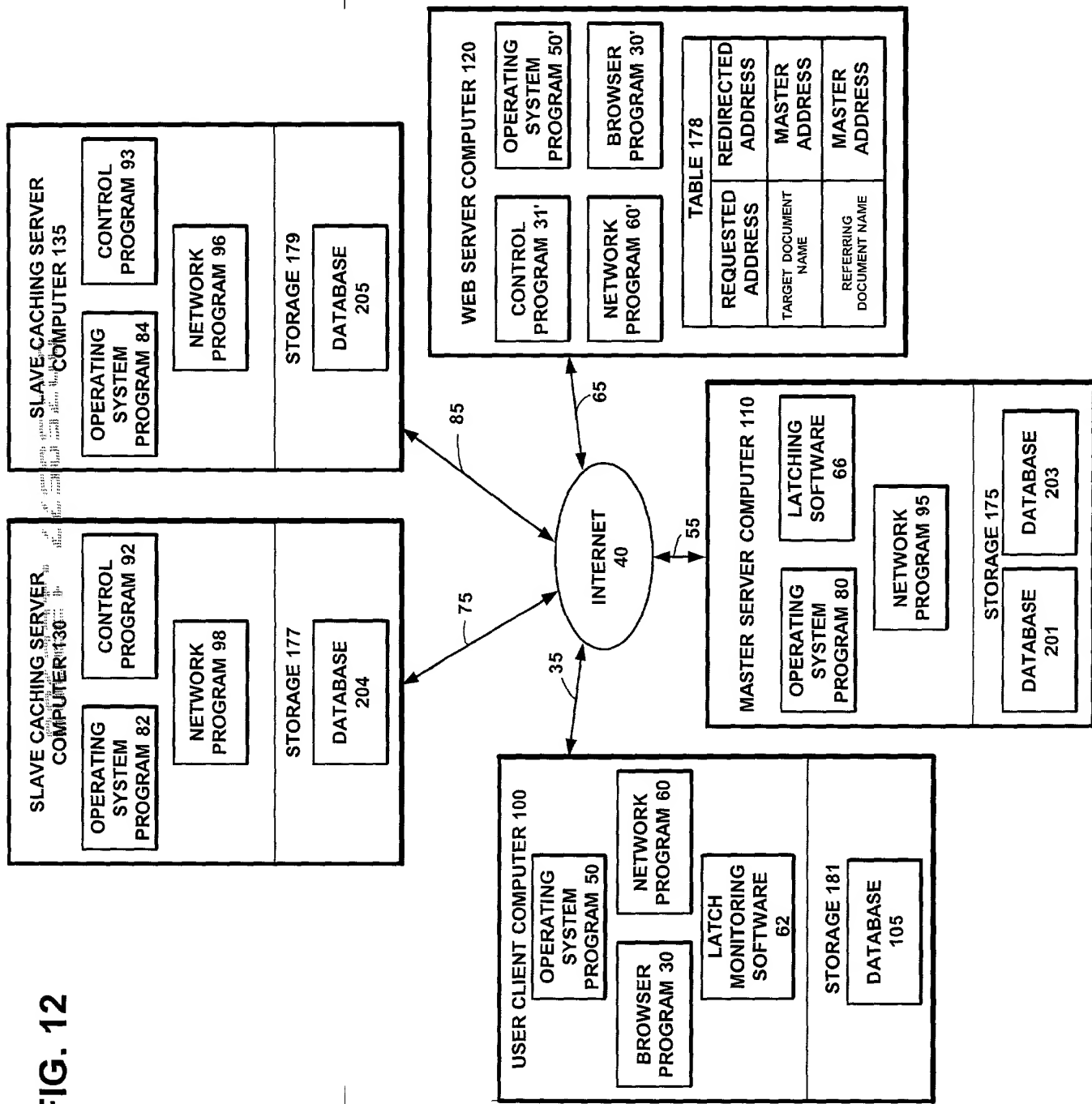


FIG. 12



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A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

FIG. 13

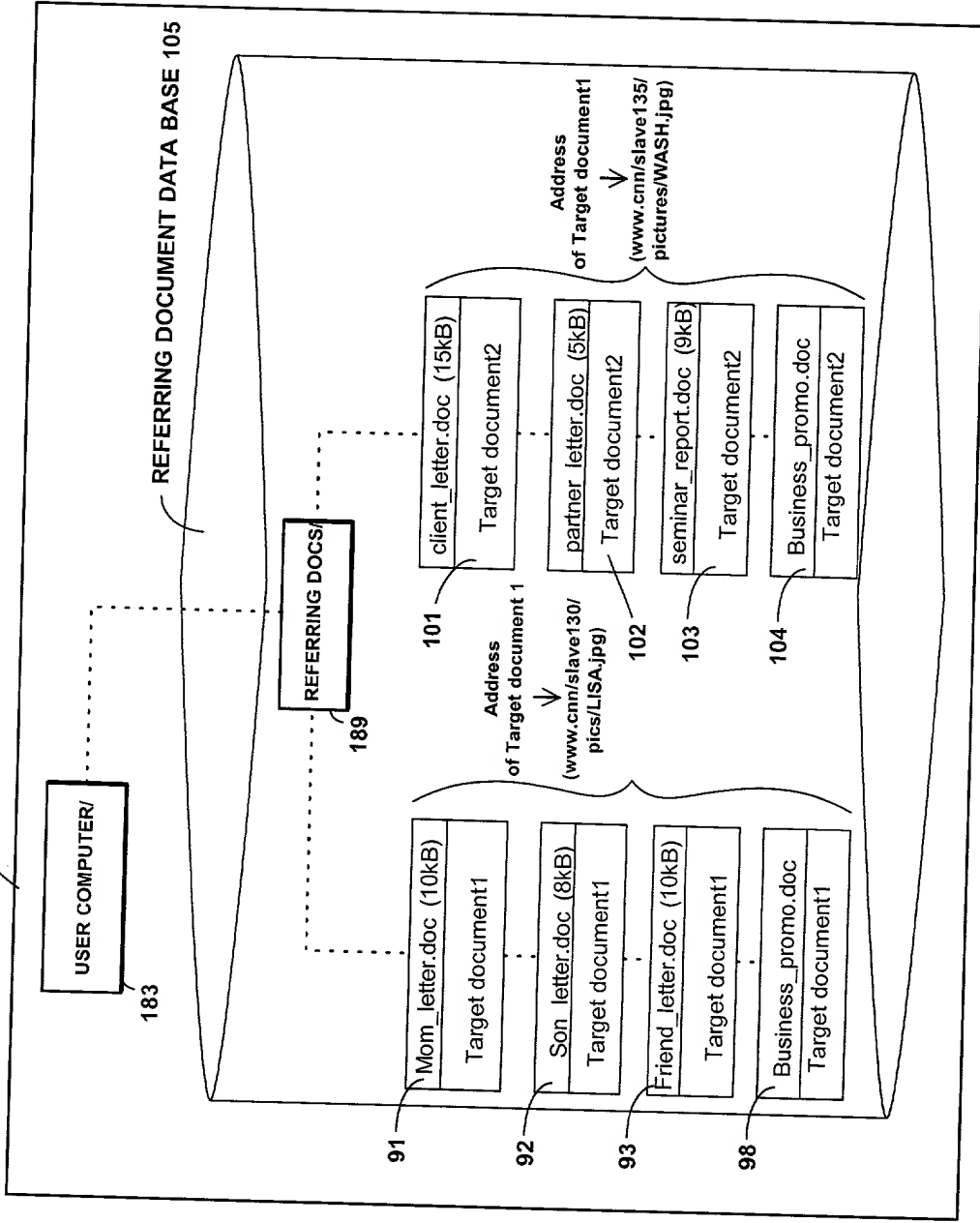


FIG. 14 is a block diagram of a system architecture for a document management system. The system includes a MASTER110/ component (176) connected to a STORAGE 175. The STORAGE 175 is connected to a PERMISSIONS DATA BASE 203 (DB203/) and an OWNER'S DATA BASE 201 (DB201/). The PERMISSIONS DATA BASE 203 contains a table with columns: URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135), ACCESS CODE ASSOCIATED WITH TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135), and a third column with values 12345, 68142, 30156, 80121, 12349, 08756, 28101, 37412. The OWNER'S DATA BASE 201 contains a table with columns: URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135), ALL REFERRING DOCUMENTS HAVING A HYPERTEXT LINK POINTING TO A URL OF A TARGET DOCUMENT (TARGET DOCUMENTS STORED IN SLAVE CACHING SERVER COMPUTER (130 or 135)), and a third column with values: jsmith@aol nsf/Mom_letter doc, pnewman@compuserve com/Friend_ltr doc, hjones@lbn com/Business_promo doc, jsmdr@aol com/client_letter doc, jsmith@sachsinc com/partner_letter doc, hjones@uspio gov/seminar_report doc, yln@lbn com/Business_promo doc. Below the OWNER'S DATA BASE 201 are two tables: USE TABLE 1 and USE TABLE 2. USE TABLE 1 has columns: URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135), COUNT = 4, COUNT = 0, COUNT = 0, COUNT = 0. USE TABLE 2 has columns: URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135), COUNT = 4, COUNT = 0, COUNT = 0, COUNT = 0.

STORAGE 175

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DB203/

PERMISSIONS DATA BASE 203

URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135)	ACCESS CODE ASSOCIATED WITH TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135)	
www crn com/slave130/pics/ LISA jpg	12345, 68142, 30156, 80121	
www crn com/slave135/pictures/ WASH jpg	12349, 08756, 28101, 37412	

DB201/

OWNER'S DATA BASE 201

URL OF TARGET DOCUMENT IN SLAVE CACHING SERVER COMPUTER (130 or 135)	ALL REFERRING DOCUMENTS HAVING A HYPERTEXT LINK POINTING TO A URL OF A TARGET DOCUMENT (TARGET DOCUMENTS STORED IN SLAVE CACHING SERVER COMPUTER (130 or 135))	
www crn com/slave130/pics/ LISA jpg	jsmith@aol nsf/Mom_letter doc, pnewman@compuserve com/Friend_ltr doc, hjones@lbn com/Business_promo doc	
www crn com/slave135/pictures/ WASH jpg	jsmdr@aol com/client_letter doc, jsmith@sachsinc com/partner_letter doc, hjones@uspio gov/seminar_report doc, yln@lbn com/Business_promo doc	

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USE TABLE 1			
LISA.jpg	COUNT = 4		
WASH.jpg	COUNT = 0		
KAREN.jpg	COUNT = 0		
TRAVEL.jpg	COUNT = 0		

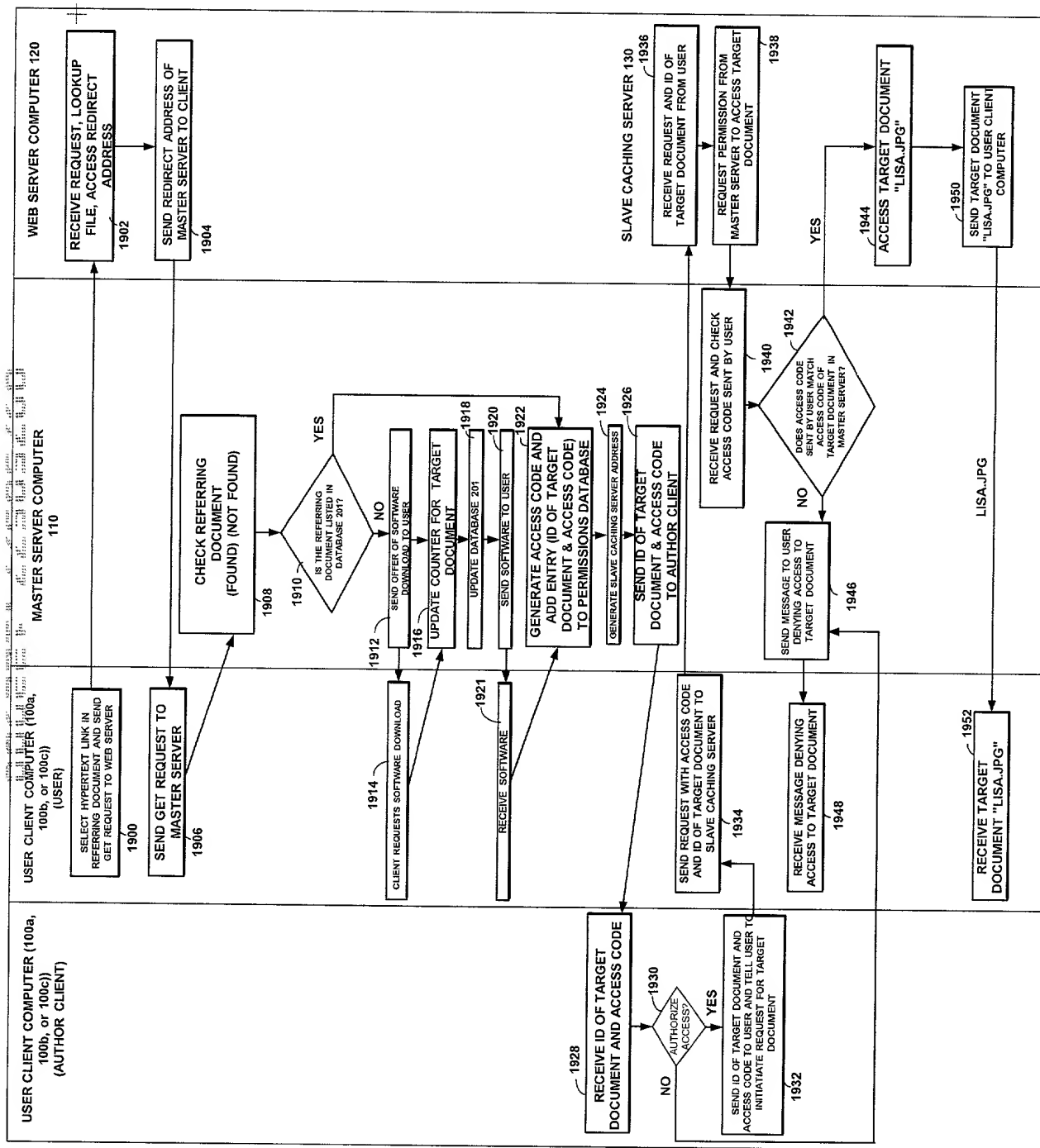
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USE TABLE 2			
WASH.jpg	COUNT = 4		
PARIS.jpg	COUNT = 0		
LONDON.jpg	COUNT = 0		
ROME.jpg	COUNT = 0		

FIG. 14

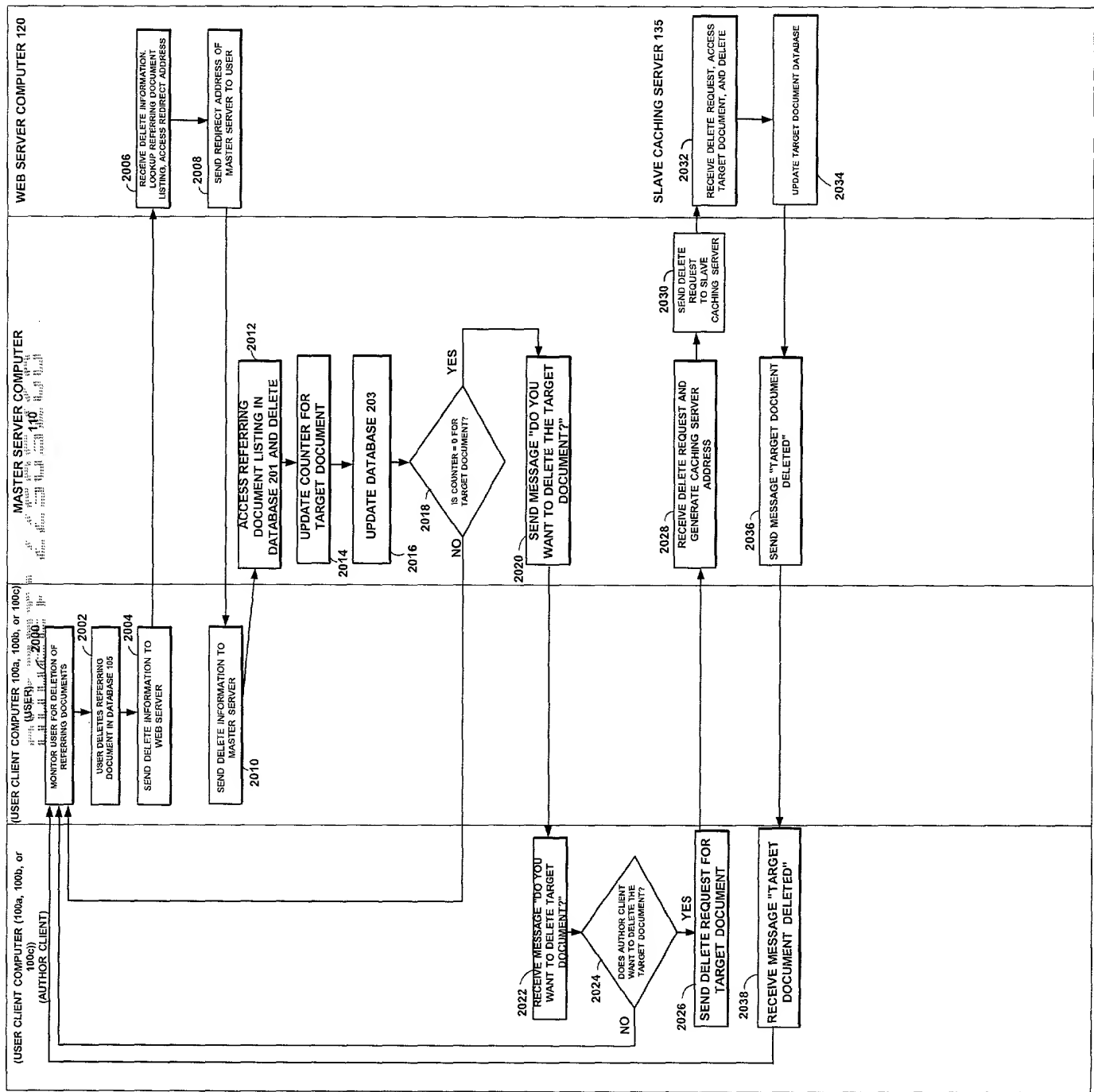
FIG. 15

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ATTACHMENTS IN DOCUMENTS

FIG. 16



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A SYSTEM AND METHOD FOR USING LINKS AS VIRTUAL
ATTACHMENTS IN DOCUMENTS

